

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

0°

SEMV

00.0

— ∞

0.00000

0.00000

— ∞

4.23524

5.76476

4.23524

9.69897

60.0

.2

0.92745

0.00000

0.00000

5.76476

4.23524

5.76476

9.69894

59.8

.4

1.52951

0.00000

0.00000

6.06579

3.93421

6.06579

9.69892

59.6

.6

1.88169

0.00000

0.00000

6.24188

3.75812

6.24188

9.69889

59.4

.8

2.13157

0.00000

0.00000

6.36682

3.63318

6.36682

9.69887

59.2

01.0

2.32539

0.00000

0.00000

6.46373

3.53627

6.46373

9.69884

59.0

.2

2.48375

0.00000

0.00000

6.54291

3.45709

6.54291

9.69882

58.8

.4

2.61765

0.00000

0.00000

6.60985

3.39015

6.60985

9.69879

58.6

.6

2.73363

0.00000

0.00000

6.66785

3.33215

6.66785

9.69877

58.4

.8

2.83594

0.00000

0.00000

6.71900

3.28100

6.71900

9.69874

58.2

02.0

2.92745

0.00000

0.00000

6.76476

3.23524

6.76476

9.69872

58.0

.2

3.01024

0.00000

0.00000

6.80615

3.19385

6.80615

9.69869

57.8

.4

3.08581

0.00000

0.00000

6.84394

3.15606

6.84394

9.69867

57.6

.6

3.15534

0.00000

0.00000

6.87870

3.12130

6.87870

9.69864

57.4

.8

3.21971

0.00000

0.00000

6.91088

3.08912

6.91088

9.69862

57.2

03.0

3.27963

0.00000

0.00000

6.94085

3.05915

6.94085

9.69859

57.0

.2

3.33569

0.00000

0.00000

6.96888

3.03112

6.96888

9.69857

56.8

.4

3.38835

0.00000

0.00000

6.99521

3.00479

6.99520

9.69854

56.6

.6

3.43800

0.00000

0.00000

7.02003

2.97997

7.02003

9.69851

56.4

.8

3.48496

0.00000

0.00000

7.04351

2.95649

7.04351

9.69849

56.2

04.0

3.52951

0.00000

0.00000

7.06579

2.93421

7.06579

9.69846

56.0

.2

3.57189

0.00000

0.00000

7.08698

2.91302

7.08698

9.69844

55.8

.4

3.61230

0.00000

0.00000

7.10718

2.89282

7.10718

9.69841

55.6

.6

3.65091

0.00000

0.00000

7.12649

2.87352

7.12648

9.69839

55.4

.8

3.68787

0.00000

0.00000

7.14497

2.85503

7.14497

9.69836

55.2

05.0

3.72333

0.00000

0.00000

7.16270

2.83730

7.16270

9.69834

55.0

.2

3.75740

0.00000

0.00000

7.17973

2.82027

7.17973

9.69831

54.8

.4

3.79018

0.00000

0.00000

7.19612

2.80388

7.19612

9.69829

54.6

.6

3.82177

0.00000

0.00000

7.21191

2.78809

7.21191

9.69826

54.4

.8

3.85225

0.00000

0.00000

7.22715

2.77285

7.22715

9.69824

54.2

06.0

3.88169

0.00000

0.00000

7.24188

2.75812

7.24188

9.69821

54.0

.2

3.91018

0.00000

0.00000

7.25612

2.74388

7.25612

9.69819

53.8

.4

3.93775

0.00000

0.00000

7.26991

2.73009

7.26991

9.69816

53.6

.6

3.96448

0.00000

0.00000

7.28327

2.71673

7.28327

9.69814

53.4

.8

3.99041

0.00000

0.00000

7.29624

2.70376

7.29623

9.69811

53.2

07.0

4.01559

0.00000

0.00000

7.30882

2.69118

7.30882

9.69808

53.0

.2

4.04006

0.00000

0.00000

7.32106

2.67894

7.32106

9.69806

52.8

.4

4.06386

0.00000

0.00000

7.33296

2.66704

7.33296

9.69803

52.6

.6

4.08702

0.00000

0.00000

7.34454

2.65546

7.34454

9.69801

52.4

.8

4.10958

0.00000

0.00000

7.35582

2.64418

7.35582

9.69798

52.2

08.0

4.13157

0.00000

0.00000

7.36682

2.63318

7.36682

9.69796

52.0

.2

4.15302

0.00000

0.00000

7.37754

2.62246

7.37754

9.69793

51.8

.4

4.17395

0.00000

0.00000

7.38801

2.61199

7.38800

9.69791

51.6

.6

4.19439

0.00000

0.00000

7.39823

2.60177

7.39822

9.69788

51.4

.8

4.21436

0.00000

0.00000

7.40821

2.59179

7.40821

9.69786

51.2

09.0

4.23388

0.00000

0.00000

7.41797

2.58203

7.41797

9.69783

51.0

.2

4.25297

0.00000

0.00000

7.42751

2.57249

7.42751

9.69781

50.8

.4

4.27165

0.00000

0.00000

7.43685

2.56315

7.43685

9.69778

50.6

.6

4.28993

0.00000

0.00000

7.44600

2.55400

7.44600

9.69776

50.4

.8

4.30784

0.00000

0.00000

7.45495

2.54505

7.45495

9.69773

50.2

10.0

4.32539

0.00000

0.00000

7.46373

2.53627

7.46373

9.69770

50.0

.2

4.34259

0.00000

0.00000

7.47233

2.52767

7.47233

9.69768

49.8

.4

4.35946

0.00000

0.00000

7.48076

2.51924

7.48076

9.69765

49.6

.6

4.37600

0.00000

0.00000

7.48903

2.51097

7.48903

9.69763

49.4

.8

4.39224

0.00000

0.00000

7.49715

2.50285

7.49715

9.69760

49.2

11.0

4.40818

0.00000

0.00000

7.50512

2.49488

7.50512

9.69758

49.0

.2

4.42383

0.00000

0.00000

7.51295

2.48705

7.51294

9.69755

48.8

.4

4.43920

0.00000

0.00000

7.52063

2.47937

7.52063

9.69753

48.6

.6

4.45431

0.00000

0.00000

7.52819

2.47181

7.52818

9.69750

48.4

.8

4.46916

0.00000

0.00000

7.53561

2.46439

7.53561

9.69748

48.2

COSEC

SEN

COTG

TG

COS

SEC

SEMV

89°

89°

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

0°		0°											
	SEMV	SEC		COS	TG		COTG	SEN		COSEC			
12.0	4.48375	0.00000		0.00000	7.54291		2.45709	7.54291		2.45709	9.69745	48.0	
.2	4.49811	0.00000		0.00000	7.55009		2.44991	7.55008		2.44992	9.69743	47.8	
.4	4.51223	0.00000		0.00000	7.55715		2.44285	7.55715		2.44286	9.69740	47.6	
.6	4.52613	0.00000		0.00000	7.56410		2.43590	7.56410		2.43590	9.69738	47.4	
.8	4.53981	0.00000		0.00000	7.57094		2.42906	7.57093		2.42907	9.69735	47.2	
13.0	4.55328	0.00000		0.00000	7.57767		2.42233	7.57767		2.42233	9.69732	47.0	
.2	4.56654	0.00000		0.00000	7.58430		2.41570	7.58430		2.41570	9.69730	46.8	
.4	4.57960	0.00000		0.00000	7.59083		2.40917	7.59083		2.40917	9.69727	46.6	
.6	4.59247	0.00000		0.00000	7.59727		2.40273	7.59726		2.40274	9.69725	46.4	
.8	4.60515	0.00000		0.00000	7.60361		2.39639	7.60360		2.39640	9.69722	46.2	
14.0	4.61765	0.00000		0.00000	7.60986		2.39014	7.60985		2.39015	9.69720	46.0	
.2	4.62997	0.00000		0.00000	7.61602		2.38398	7.61601		2.38399	9.69717	45.8	
.4	4.64212	0.00000		0.00000	7.62209		2.37791	7.62209		2.37791	9.69715	45.6	
.6	4.65410	0.00000		0.00000	7.62808		2.37192	7.62808		2.37192	9.69712	45.4	
.8	4.66591	0.00000		0.00000	7.63399		2.36601	7.63399		2.36601	9.69710	45.2	
15.0	4.67757	0.00000		0.00000	7.63982		2.36018	7.63982		2.36018	9.69707	45.0	
.2	4.68908	0.00000		0.00000	7.64557		2.35443	7.64557		2.35443	9.69705	44.8	
.4	4.70043	0.00000		0.00000	7.65125		2.34875	7.65125		2.34875	9.69702	44.6	
.6	4.71164	0.00000		0.00000	7.65685		2.34315	7.65685		2.34315	9.69699	44.4	
.8	4.72271	0.00000		0.00000	7.66239		2.33761	7.66238		2.33762	9.69697	44.2	
16.0	4.73363	0.00000		0.00000	7.66785		2.33215	7.66784		2.33216	9.69694	44.0	
.2	4.74442	0.00000		0.00000	7.67324		2.32676	7.67324		2.32676	9.69692	43.8	
.4	4.75508	0.00000		0.00000	7.67857		2.32143	7.67857		2.32143	9.69689	43.6	
.6	4.76561	0.00001		9.99999	7.68384		2.31616	7.68383		2.31617	9.69687	43.4	
.8	4.77601	0.00001		9.99999	7.68904		2.31096	7.68903		2.31097	9.69684	43.2	
17.0	4.78629	0.00001		9.99999	7.69418		2.30582	7.69417		2.30583	9.69682	43.0	
.2	4.79645	0.00001		9.99999	7.69926		2.30074	7.69925		2.30075	9.69679	42.8	
.4	4.80649	0.00001		9.99999	7.70428		2.29572	7.70427		2.29573	9.69677	42.6	
.6	4.81642	0.00001		9.99999	7.70924		2.29076	7.70924		2.29076	9.69674	42.4	
.8	4.82623	0.00001		9.99999	7.71415		2.28585	7.71414		2.28586	9.69672	42.2	
18.0	4.83594	0.00001		9.99999	7.71900		2.28100	7.71900		2.28100	9.69669	42.0	
.2	4.84553	0.00001		9.99999	7.72380		2.27620	7.72380		2.27620	9.69666	41.8	
.4	4.85503	0.00001		9.99999	7.72855		2.27145	7.72854		2.27146	9.69664	41.6	
.6	4.86442	0.00001		9.99999	7.73324		2.26676	7.73324		2.26676	9.69661	41.4	
.8	4.87371	0.00001		9.99999	7.73789		2.26211	7.73788		2.26212	9.69659	41.2	
19.0	4.88290	0.00001		9.99999	7.74248		2.25752	7.74248		2.25752	9.69656	41.0	
.2	4.89199	0.00001		9.99999	7.74703		2.25297	7.74702		2.25298	9.69654	40.8	
.4	4.90099	0.00001		9.99999	7.75153		2.24847	7.75153		2.24847	9.69651	40.6	
.6	4.90990	0.00001		9.99999	7.75599		2.24401	7.75598		2.24402	9.69649	40.4	
.8	4.91872	0.00001		9.99999	7.76040		2.23960	7.76039		2.23961	9.69646	40.2	
20.0	4.92745	0.00001		9.99999	7.76476		2.23524	7.76475		2.23525	9.69644	40.0	
.2	4.93609	0.00001		9.99999	7.76908		2.23092	7.76907		2.23093	9.69641	39.8	
.4	4.94465	0.00001		9.99999	7.77336		2.22664	7.77335		2.22665	9.69639	39.6	
.6	4.95313	0.00001		9.99999	7.77760		2.22240	7.77759		2.22241	9.69636	39.4	
.8	4.96152	0.00001		9.99999	7.78179		2.21821	7.78179		2.21821	9.69633	39.2	
21.0	4.96983	0.00001		9.99999	7.78595		2.21405	7.78594		2.21406	9.69631	39.0	
.2	4.97806	0.00001		9.99999	7.79007		2.20993	7.79006		2.20994	9.69628	38.8	
.4	4.98622	0.00001		9.99999	7.79415		2.20585	7.79414		2.20586	9.69626	38.6	
.6	4.99430	0.00001		9.99999	7.79819		2.20181	7.79818		2.20182	9.69623	38.4	
.8	5.00230	0.00001		9.99999	7.80219		2.19781	7.80218		2.19782	9.69621	38.2	
22.0	5.01024	0.00001		9.99999	7.80615		2.19385	7.80615		2.19385	9.69618	38.0	
.2	5.01810	0.00001		9.99999	7.81009		2.18991	7.81008		2.18992	9.69616	37.8	
.4	5.02589	0.00001		9.99999	7.81398		2.18602	7.81397		2.18603	9.69613	37.6	
.6	5.03361	0.00001		9.99999	7.81784		2.18216	7.81783		2.18217	9.69611	37.4	
.8	5.04126	0.00001		9.99999	7.82167		2.17833	7.82166		2.17834	9.69608	37.2	
23.0	5.04885	0.00001		9.99999	7.82546		2.17454	7.82545		2.17455	9.69605	37.0	
.2	5.05637	0.00001		9.99999	7.82922		2.17078	7.82921		2.17079	9.69603	36.8	
.4	5.06382	0.00001		9.99999	7.83295		2.16705	7.83294		2.16706	9.69600	36.6	
.6	5.07121	0.00001		9.99999	7.83664		2.16336	7.83663		2.16337	9.69598	36.4	
.8	5.07854	0.00001		9.99999	7.84031		2.15969	7.84030		2.15970	9.69595	36.2	
		COSEC		SEN	COTG		TG	COS		SEC	SEMV		
89°													

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

0°	0°										
	SEMV	SEC		COS	TG		COTG	SEN		COSEC	
24.0	5.08581	0.00001		9.99999	7.84394		2.15606	7.84393		2.15607	9.69593
.2	5.09302	0.00001		9.99999	7.84755		2.15245	7.84754		2.15246	9.69590
.4	5.10017	0.00001		9.99999	7.85112		2.14888	7.85111		2.14889	9.69588
.6	5.10726	0.00001		9.99999	7.85467		2.14533	7.85466		2.14534	9.69585
.8	5.11429	0.00001		9.99999	7.85819		2.14181	7.85817		2.14183	9.69583
25.0	5.12127	0.00001		9.99999	7.86167		2.13833	7.86166		2.13834	9.69580
.2	5.12819	0.00001		9.99999	7.86513		2.13487	7.86512		2.13488	9.69577
.4	5.13506	0.00001		9.99999	7.86857		2.13143	7.86856		2.13144	9.69575
.6	5.14187	0.00001		9.99999	7.87197		2.12803	7.87196		2.12804	9.69572
.8	5.14863	0.00001		9.99999	7.87535		2.12465	7.87534		2.12466	9.69570
26.0	5.15534	0.00001		9.99999	7.87871		2.12129	7.87870		2.12130	9.69567
.2	5.16199	0.00001		9.99999	7.88204		2.11796	7.88202		2.11798	9.69565
.4	5.16860	0.00001		9.99999	7.88534		2.11466	7.88533		2.11467	9.69562
.6	5.17515	0.00001		9.99999	7.88862		2.11138	7.88860		2.11140	9.69560
.8	5.18166	0.00001		9.99999	7.89187		2.10813	7.89186		2.10814	9.69557
27.0	5.18812	0.00001		9.99999	7.89510		2.10490	7.89509		2.10491	9.69555
.2	5.19453	0.00001		9.99999	7.89830		2.10170	7.89829		2.10171	9.69552
.4	5.20089	0.00001		9.99999	7.90149		2.09851	7.90147		2.09853	9.69549
.6	5.20721	0.00001		9.99999	7.90464		2.09536	7.90463		2.09537	9.69547
.8	5.21348	0.00001		9.99999	7.90778		2.09221	7.90777		2.09223	9.69544
28.0	5.21971	0.00001		9.99999	7.91089		2.08911	7.91088		2.08912	9.69542
.2	5.22589	0.00001		9.99999	7.91398		2.08602	7.91397		2.08603	9.69539
.4	5.23203	0.00001		9.99999	7.91705		2.08295	7.91704		2.08296	9.69537
.6	5.23812	0.00002		9.99998	7.92010		2.07990	7.92009		2.07991	9.69534
.8	5.24417	0.00002		9.99998	7.92313		2.07687	7.92311		2.07689	9.69532
29.0	5.25019	0.00002		9.99998	7.92613		2.07387	7.92612		2.07388	9.69529
.2	5.25616	0.00002		9.99998	7.92912		2.07088	7.92910		2.07090	9.69527
.4	5.26208	0.00002		9.99998	7.93208		2.06792	7.93207		2.06793	9.69524
.6	5.26797	0.00002		9.99998	7.93503		2.06497	7.93501		2.06499	9.69521
.8	5.27382	0.00002		9.99998	7.93795		2.06205	7.93794		2.06206	9.69519
30.0	5.27963	0.00002		9.99998	7.94086		2.05914	7.94084		2.05916	9.69516
.2	5.28540	0.00002		9.99998	7.94374		2.05626	7.94373		2.05627	9.69514
.4	5.29114	0.00002		9.99998	7.94661		2.05339	7.94659		2.05341	9.69511
.6	5.29683	0.00002		9.99998	7.94946		2.05054	7.94944		2.05056	9.69509
.8	5.30249	0.00002		9.99998	7.95229		2.04771	7.95227		2.04773	9.69506
31.0	5.30811	0.00002		9.99998	7.95510		2.04490	7.95508		2.04492	9.69504
.2	5.31370	0.00002		9.99998	7.95789		2.04211	7.95787		2.04213	9.69501
.4	5.31925	0.00002		9.99998	7.96067		2.03933	7.96065		2.03935	9.69498
.6	5.32476	0.00002		9.99998	7.96343		2.03657	7.96341		2.03659	9.69496
.8	5.33024	0.00002		9.99998	7.96617		2.03383	7.96615		2.03385	9.69493
32.0	5.33569	0.00002		9.99998	7.96889		2.03111	7.96887		2.03113	9.69491
.2	5.34110	0.00002		9.99998	7.97159		2.02841	7.97158		2.02842	9.69488
.4	5.34648	0.00002		9.99998	7.97428		2.02572	7.97426		2.02574	9.69486
.6	5.35182	0.00002		9.99998	7.97696		2.02304	7.97694		2.02306	9.69483
.8	5.35714	0.00002		9.99998	7.97961		2.02039	7.97959		2.02041	9.69481
33.0	5.36242	0.00002		9.99998	7.98225		2.01775	7.98223		2.01777	9.69478
.2	5.36766	0.00002		9.99998	7.98488		2.01512	7.98486		2.01514	9.69476
.4	5.37288	0.00002		9.99998	7.98749		2.01251	7.98747		2.01253	9.69473
.6	5.37807	0.00002		9.99998	7.99008		2.00992	7.99006		2.00994	9.69470
.8	5.38322	0.00002		9.99998	7.99266		2.00734	7.99264		2.00736	9.69468
34.0	5.38835	0.00002		9.99998	7.99522		2.00478	7.99520		2.00480	9.69465
.2	5.39344	0.00002		9.99998	7.99777		2.00223	7.99774		2.00226	9.69463
.4	5.39851	0.00002		9.99998	8.00030		1.99970	8.00028		1.99972	9.69460
.6	5.40354	0.00002		9.99998	8.00282		1.99718	8.00279		1.99721	9.69458
.8	5.40855	0.00002		9.99998	8.00532		1.99468	8.00530		1.99470	9.69455
35.0	5.41352	0.00002		9.99998	8.00781		1.99219	8.00779		1.99221	9.69453
.2	5.41847	0.00002		9.99998	8.01028		1.98972	8.01026		1.98974	9.69450
.4	5.42339	0.00002		9.99998	8.01274		1.98726	8.01272		1.98728	9.69447
.6	5.42829	0.00002		9.99998	8.01519		1.98481	8.01517		1.98483	9.69445
.8	5.43315	0.00002		9.99998	8.01762		1.98238	8.01760		1.98240	9.69442
		COSEC		SEN	COTG		TG	COS		SEC	SEMV
											89°

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

0°		0°											
	SEMV	SEC		COS	TG		COTG	SEN		COSEC			
36.0	5.43799	0.00002		9.99998	8.02004		1.97996	8.02002		1.97998	9.69440	24.0	
.2	5.44281	0.00002		9.99998	8.02245		1.97755	8.02243		1.97757	9.69437	23.8	
.4	5.44759	0.00002		9.99998	8.02484		1.97516	8.02482		1.97518	9.69435	23.6	
.6	5.45235	0.00002		9.99998	8.02722		1.97278	8.02720		1.97280	9.69432	23.4	
.8	5.45708	0.00002		9.99998	8.02959		1.97041	8.02957		1.97043	9.69430	23.2	
37.0	5.46179	0.00003		9.99997	8.03194		1.96806	8.03192		1.96808	9.69427	23.0	
.2	5.46647	0.00003		9.99997	8.03429		1.96571	8.03426		1.96574	9.69424	22.8	
.4	5.47113	0.00003		9.99997	8.03661		1.96339	8.03659		1.96341	9.69422	22.6	
.6	5.47576	0.00003		9.99997	8.03893		1.96107	8.03891		1.96109	9.69419	22.4	
.8	5.48037	0.00003		9.99997	8.04124		1.95876	8.04121		1.95879	9.69417	22.2	
38.0	5.48495	0.00003		9.99997	8.04353		1.95647	8.04350		1.95650	9.69414	22.0	
.2	5.48951	0.00003		9.99997	8.04581		1.95419	8.04578		1.95422	9.69412	21.8	
.4	5.49405	0.00003		9.99997	8.04808		1.95192	8.04805		1.95195	9.69409	21.6	
.6	5.49856	0.00003		9.99997	8.05033		1.94967	8.05030		1.94970	9.69407	21.4	
.8	5.50305	0.00003		9.99997	8.05258		1.94742	8.05255		1.94745	9.69404	21.2	
39.0	5.50752	0.00003		9.99997	8.05481		1.94519	8.05478		1.94522	9.69401	21.0	
.2	5.51196	0.00003		9.99997	8.05703		1.94297	8.05700		1.94300	9.69399	20.8	
.4	5.51638	0.00003		9.99997	8.05924		1.94076	8.05921		1.94079	9.69396	20.6	
.6	5.52078	0.00003		9.99997	8.06144		1.93856	8.06141		1.93859	9.69394	20.4	
.8	5.52515	0.00003		9.99997	8.06363		1.93637	8.06360		1.93640	9.69391	20.2	
40.0	5.52951	0.00003		9.99997	8.06581		1.93419	8.06578		1.93422	9.69389	20.0	
.2	5.53384	0.00003		9.99997	8.06797		1.93203	8.06794		1.93206	9.69386	19.8	
.4	5.53815	0.00003		9.99997	8.07013		1.92987	8.07010		1.92990	9.69384	19.6	
.6	5.54244	0.00003		9.99997	8.07227		1.92773	8.07224		1.92776	9.69381	19.4	
.8	5.54671	0.00003		9.99997	8.07441		1.92559	8.07438		1.92562	9.69378	19.2	
41.0	5.55095	0.00003		9.99997	8.07653		1.92347	8.07650		1.92350	9.69376	19.0	
.2	5.55518	0.00003		9.99997	8.07864		1.92136	8.07861		1.92139	9.69373	18.8	
.4	5.55939	0.00003		9.99997	8.08075		1.91925	8.08072		1.91928	9.69371	18.6	
.6	5.56357	0.00003		9.99997	8.08284		1.91716	8.08281		1.91719	9.69368	18.4	
.8	5.56774	0.00003		9.99997	8.08492		1.91508	8.08489		1.91511	9.69366	18.2	
42.0	5.57189	0.00003		9.99997	8.08700		1.91300	8.08696		1.91304	9.69363	18.0	
.2	5.57601	0.00003		9.99997	8.08906		1.91094	8.08903		1.91097	9.69361	17.8	
.4	5.58012	0.00003		9.99997	8.09111		1.90889	8.09108		1.90892	9.69358	17.6	
.6	5.58421	0.00003		9.99997	8.09316		1.90684	8.09312		1.90688	9.69355	17.4	
.8	5.58827	0.00003		9.99997	8.09519		1.90481	8.09516		1.90484	9.69353	17.2	
43.0	5.59232	0.00003		9.99997	8.09722		1.90278	8.09718		1.90282	9.69350	17.0	
.2	5.59635	0.00003		9.99997	8.09923		1.90077	8.09920		1.90080	9.69348	16.8	
.4	5.60037	0.00003		9.99997	8.10124		1.89876	8.10120		1.89880	9.69345	16.6	
.6	5.60436	0.00003		9.99997	8.10324		1.89676	8.10320		1.89680	9.69343	16.4	
.8	5.60833	0.00004		9.99996	8.10522		1.89478	8.10519		1.89481	9.69340	16.2	
44.0	5.61229	0.00004		9.99996	8.10720		1.89280	8.10717		1.89283	9.69338	16.0	
.2	5.61623	0.00004		9.99996	8.10917		1.89083	8.10914		1.89086	9.69335	15.8	
.4	5.62015	0.00004		9.99996	8.11113		1.88887	8.11110		1.88890	9.69332	15.6	
.6	5.62406	0.00004		9.99996	8.11309		1.88691	8.11305		1.88695	9.69330	15.4	
.8	5.62794	0.00004		9.99996	8.11503		1.88497	8.11499		1.88501	9.69327	15.2	
45.0	5.63181	0.00004		9.99996	8.11696		1.88304	8.11693		1.88307	9.69325	15.0	
.2	5.63566	0.00004		9.99996	8.11889		1.88111	8.11885		1.88115	9.69322	14.8	
.4	5.63950	0.00004		9.99996	8.12081		1.87919	8.12077		1.87923	9.69320	14.6	
.6	5.64332	0.00004		9.99996	8.12272		1.87728	8.12268		1.87732	9.69317	14.4	
.8	5.64712	0.00004		9.99996	8.12462		1.87538	8.12458		1.87542	9.69315	14.2	
46.0	5.65090	0.00004		9.99996	8.12651		1.87349	8.12647		1.87353	9.69312	14.0	
.2	5.65467	0.00004		9.99996	8.12839		1.87161	8.12835		1.87165	9.69309	13.8	
.4	5.65842	0.00004		9.99996	8.13027		1.86973	8.13023		1.86977	9.69307	13.6	
.6	5.66216	0.00004		9.99996	8.13214		1.86786	8.13210		1.86790	9.69304	13.4	
.8	5.66588	0.00004		9.99996	8.13400		1.86600	8.13396		1.86604	9.69302	13.2	
47.0	5.66958	0.00004		9.99996	8.13585		1.86415	8.13581		1.86419	9.69299	13.0	
.2	5.67327	0.00004		9.99996	8.13770		1.86230	8.13765		1.86235	9.69297	12.8	
.4	5.67694	0.00004		9.99996	8.13943		1.86047	8.13949		1.86051	9.69294	12.6	
.6	5.68060	0.00004		9.99996	8.14136		1.85864	8.14132		1.85868	9.69291	12.4	
.8	5.68424	0.00004		9.99996	8.14318		1.85682	8.14314		1.85686	9.69289	12.2	
		COSEC		SEN	COTG		TG	COS		SEC	SEMV	89°	

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

0°		0°										89°	
SEMV		SEC		COS	TG		COTG	SEN		COSEC			
48.0	5.68787	0.00004		9.99996	8.14500		1.85500	8.14495		1.85505	9.69286	12.0	
.2	5.69148	0.00004		9.99996	8.14680		1.85320	8.14676		1.85324	9.69284	11.8	
.4	5.69508	0.00004		9.99996	8.14860		1.85140	8.14856		1.85144	9.69281	11.6	
.6	5.69866	0.00004		9.99996	8.15039		1.84961	8.15035		1.84965	9.69279	11.4	
.8	5.70222	0.00004		9.99996	8.15217		1.84783	8.15213		1.84787	9.69276	11.2	
49.0	5.70578	0.00004		9.99996	8.15395		1.84605	8.15391		1.84609	9.69274	11.0	
.2	5.70931	0.00004		9.99996	8.15572		1.84428	8.15568		1.84432	9.69271	10.8	
.4	5.71284	0.00004		9.99996	8.15748		1.84252	8.15744		1.84256	9.69268	10.6	
.6	5.71635	0.00005		9.99995	8.15924		1.84076	8.15919		1.84081	9.69266	10.4	
.8	5.71984	0.00005		9.99995	8.16099		1.83901	8.16094		1.83906	9.69263	10.2	
50.0	5.72332	0.00005		9.99995	8.16273		1.83727	8.16268		1.83732	9.69261	10.0	
.2	5.72679	0.00005		9.99995	8.16446		1.83554	8.16441		1.83559	9.69258	99.8	
.4	5.73025	0.00005		9.99995	8.16619		1.83381	8.16614		1.83386	9.69256	99.6	
.6	5.73369	0.00005		9.99995	8.16791		1.83209	8.16786		1.83214	9.69253	99.4	
.8	5.73711	0.00005		9.99995	8.16962		1.83038	8.16957		1.83043	9.69250	99.2	
51.0	5.74052	0.00005		9.99995	8.17133		1.82867	8.17128		1.82872	9.69248	99.0	
.2	5.74392	0.00005		9.99995	8.17303		1.82697	8.17298		1.82702	9.69245	98.8	
.4	5.74731	0.00005		9.99995	8.17472		1.82528	8.17467		1.82533	9.69243	98.6	
.6	5.75068	0.00005		9.99995	8.17641		1.82359	8.17636		1.82364	9.69240	98.4	
.8	5.75404	0.00005		9.99995	8.17809		1.82191	8.17804		1.82196	9.69238	98.2	
52.0	5.75739	0.00005		9.99995	8.17976		1.82024	8.17971		1.82029	9.69235	98.0	
.2	5.76072	0.00005		9.99995	8.18143		1.81857	8.18138		1.81862	9.69233	97.8	
.4	5.76405	0.00005		9.99995	8.18309		1.81691	8.18304		1.81696	9.69230	97.6	
.6	5.76736	0.00005		9.99995	8.18475		1.81525	8.18469		1.81531	9.69227	97.4	
.8	5.77065	0.00005		9.99995	8.18639		1.81361	8.18634		1.81366	9.69225	97.2	
53.0	5.77394	0.00005		9.99995	8.18804		1.81196	8.18798		1.81202	9.69222	97.0	
.2	5.77721	0.00005		9.99995	8.18967		1.81033	8.18962		1.81038	9.69220	96.8	
.4	5.78047	0.00005		9.99995	8.19130		1.80870	8.19125		1.80875	9.69217	96.6	
.6	5.78371	0.00005		9.99995	8.19293		1.80707	8.19288		1.80713	9.69215	96.4	
.8	5.78695	0.00005		9.99995	8.19454		1.80546	8.19449		1.80551	9.69212	96.2	
54.0	5.79017	0.00005		9.99995	8.19616		1.80384	8.19610		1.80390	9.69209	96.0	
.2	5.79338	0.00005		9.99995	8.19776		1.80224	8.19771		1.80229	9.69207	95.8	
.4	5.79658	0.00005		9.99995	8.19936		1.80064	8.19931		1.80069	9.69204	95.6	
.6	5.79977	0.00005		9.99995	8.20096		1.79904	8.20090		1.79910	9.69202	95.4	
.8	5.80294	0.00006		9.99994	8.20254		1.79746	8.20249		1.79751	9.69199	95.2	
55.0	5.80611	0.00006		9.99994	8.20413		1.79587	8.20407		1.79593	9.69197	95.0	
.2	5.80926	0.00006		9.99994	8.20570		1.79430	8.20565		1.79435	9.69194	94.8	
.4	5.81240	0.00006		9.99994	8.20727		1.79273	8.20722		1.79278	9.69191	94.6	
.6	5.81553	0.00006		9.99994	8.20884		1.79116	8.20878		1.79122	9.69189	94.4	
.8	5.81865	0.00006		9.99994	8.21040		1.78960	8.21034		1.78966	9.69186	94.2	
56.0	5.82176	0.00006		9.99994	8.21195		1.78805	8.21189		1.78811	9.69184	94.0	
.2	5.82485	0.00006		9.99994	8.21350		1.78650	8.21344		1.78656	9.69181	93.8	
.4	5.82794	0.00006		9.99994	8.21504		1.78496	8.21499		1.78501	9.69179	93.6	
.6	5.83102	0.00006		9.99994	8.21658		1.78342	8.21652		1.78348	9.69176	93.4	
.8	5.83408	0.00006		9.99994	8.21811		1.78189	8.21805		1.78195	9.69173	93.2	
57.0	5.83713	0.00006		9.99994	8.21964		1.78036	8.21958		1.78042	9.69171	93.0	
.2	5.84017	0.00006		9.99994	8.22116		1.77884	8.22110		1.77890	9.69168	92.8	
.4	5.84321	0.00006		9.99994	8.22268		1.77732	8.22262		1.77738	9.69166	92.6	
.6	5.84623	0.00006		9.99994	8.22419		1.77581	8.22413		1.77587	9.69163	92.4	
.8	5.84924	0.00006		9.99994	8.22569		1.77431	8.22563		1.77437	9.69161	92.2	
58.0	5.85224	0.00006		9.99994	8.22720		1.77280	8.22743		1.77287	9.69158	92.0	
.2	5.85523	0.00006		9.99994	8.22869		1.77131	8.22863		1.77137	9.69155	91.8	
.4	5.85821	0.00006		9.99994	8.23018		1.76982	8.23012		1.76988	9.69153	91.6	
.6	5.86118	0.00006		9.99994	8.23167		1.76833	8.23160		1.76840	9.69150	91.4	
.8	5.86414	0.00006		9.99994	8.23315		1.76685	8.23308		1.76692	9.69148	91.2	
59.0	5.86709	0.00006		9.99994	8.23462		1.76538	8.23456		1.76544	9.69145	91.0	
.2	5.87002	0.00006		9.99994	8.23609		1.76391	8.23603		1.76397	9.69143	90.8	
.4	5.87295	0.00006		9.99994	8.23756		1.76244	8.23749		1.76251	9.69140	90.6	
.6	5.87587	0.00007		9.99993	8.23902		1.76098	8.23895		1.76105	9.69137	90.4	
.8	5.87878	0.00007		9.99993	8.24047		1.75953	8.24041		1.75959	9.69135	90.2	
60.0	5.88168	0.00007		9.99993	8.24192		1.75808	8.24186		1.75814	9.69132	90.0	
COSEC				SEN	COTG		TG	COS		SEC	SEMV	89°	

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

1°	1°									
	SEMV	SEC		COS	TG		COTG	SEN		COSEC
00.0	5.88168	0.00007		9.99993	8.24192		1.75808	8.24186		1.75814
.2	5.88457	0.00007		9.99993	8.24337		1.75663	8.24330		1.75670
.4	5.88745	0.00007		9.99993	8.24481		1.75519	8.24474		1.75526
.6	5.89033	0.00007		9.99993	8.24624		1.75376	8.24618		1.75382
.8	5.89319	0.00007		9.99993	8.24767		1.75233	8.24761		1.75239
01.0	5.89604	0.00007		9.99993	8.24910		1.75090	8.24903		1.75097
.2	5.89888	0.00007		9.99993	8.25052		1.74948	8.25045		1.74955
.4	5.90172	0.00007		9.99993	8.25194		1.74806	8.25187		1.74813
.6	5.90454	0.00007		9.99993	8.25335		1.74665	8.25328		1.74672
.8	5.90736	0.00007		9.99993	8.25476		1.74524	8.25469		1.74531
02.0	5.91016	0.00007		9.99993	8.25616		1.74384	8.25609		1.74391
.2	5.91296	0.00007		9.99993	8.25756		1.74244	8.25749		1.74251
.4	5.91575	0.00007		9.99993	8.25896		1.74104	8.25889		1.74111
.6	5.91853	0.00007		9.99993	8.26035		1.73965	8.26028		1.73972
.8	5.92130	0.00007		9.99993	8.26173		1.73827	8.26166		1.73834
03.0	5.92406	0.00007		9.99993	8.26312		1.73688	8.26304		1.73696
.2	5.92681	0.00007		9.99993	8.26449		1.73551	8.26442		1.73558
.4	5.92956	0.00007		9.99993	8.26586		1.73414	8.26579		1.73421
.6	5.93229	0.00007		9.99993	8.26723		1.73277	8.26716		1.73284
.8	5.93502	0.00007		9.99993	8.26860		1.73140	8.26852		1.73148
04.0	5.93774	0.00008		9.99992	8.26996		1.73004	8.26988		1.73012
.2	5.94045	0.00008		9.99992	8.27131		1.72869	8.27124		1.72876
.4	5.94315	0.00008		9.99992	8.27266		1.72734	8.27259		1.72741
.6	5.94584	0.00008		9.99992	8.27401		1.72599	8.27393		1.72607
.8	5.94853	0.00008		9.99992	8.27535		1.72465	8.27528		1.72472
05.0	5.95121	0.00008		9.99992	8.27670		1.72331	8.27661		1.72339
.2	5.95387	0.00008		9.99992	8.27803		1.72197	8.27795		1.72205
.4	5.95653	0.00008		9.99992	8.27936		1.72064	8.27928		1.72072
.6	5.95919	0.00008		9.99992	8.28068		1.71932	8.28060		1.71940
.8	5.96183	0.00008		9.99992	8.28200		1.71800	8.28193		1.71807
06.0	5.96447	0.00008		9.99992	8.28332		1.71668	8.28324		1.71676
.2	5.96709	0.00008		9.99992	8.28464		1.71536	8.28456		1.71544
.4	5.96971	0.00008		9.99992	8.28595		1.71405	8.28587		1.71413
.6	5.97233	0.00008		9.99992	8.28725		1.71275	8.28717		1.71283
.8	5.97493	0.00008		9.99992	8.28856		1.71144	8.28848		1.71152
07.0	5.97753	0.00008		9.99992	8.28986		1.71014	8.28977		1.71023
.2	5.98012	0.00008		9.99992	8.29115		1.70885	8.29107		1.70893
.4	5.98270	0.00008		9.99992	8.29244		1.70756	8.29236		1.70764
.6	5.98527	0.00008		9.99992	8.29373		1.70627	8.29364		1.70636
.8	5.98784	0.00008		9.99992	8.29501		1.70499	8.29493		1.70507
08.0	5.99040	0.00008		9.99992	8.29629		1.70371	8.29621		1.70379
.2	5.99295	0.00009		9.99991	8.29757		1.70243	8.29748		1.70252
.4	5.99549	0.00009		9.99991	8.29884		1.70116	8.29875		1.70125
.6	5.99803	0.00009		9.99991	8.30011		1.69989	8.30002		1.69998
.8	6.00055	0.00009		9.99991	8.30137		1.69863	8.30129		1.69871
09.0	6.00308	0.00009		9.99991	8.30263		1.69737	8.30255		1.69745
.2	6.00559	0.00009		9.99991	8.30389		1.69611	8.30380		1.69620
.4	6.00810	0.00009		9.99991	8.30514		1.69486	8.30506		1.69494
.6	6.01060	0.00009		9.99991	8.30639		1.69361	8.30631		1.69369
.8	6.01309	0.00009		9.99991	8.30764		1.69236	8.30755		1.69245
10.0	6.01557	0.00009		9.99991	8.30888		1.69112	8.30879		1.69121
.2	6.01805	0.00009		9.99991	8.31012		1.68988	8.31003		1.68997
.4	6.02052	0.00009		9.99991	8.31136		1.68864	8.31127		1.68873
.6	6.02299	0.00009		9.99991	8.31259		1.68741	8.31250		1.68750
.8	6.02544	0.00009		9.99991	8.31382		1.68618	8.31373		1.68627
11.0	6.02789	0.00009		9.99991	8.31505		1.68495	8.31495		1.68505
.2	6.03034	0.00009		9.99991	8.31627		1.68373	8.31617		1.68383
.4	6.03277	0.00009		9.99991	8.31749		1.68251	8.31739		1.68261
.6	6.03520	0.00009		9.99991	8.31870		1.68130	8.31861		1.68139
.8	6.03763	0.00009		9.99991	8.31991		1.68009	8.31982		1.68018
	COSEC			SEN	COTG		TG	COS		SEC
	88°									
	SEMV									88°

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

1°		1°									
	SEMV	SEC		COS	TG		COTG	SEN		COSEC	
12.0	6.04004	0.00010		9.99990	8.32112		1.67888	8.32103		1.67897	9.68978
.2	6.04245	0.00010		9.99990	8.32233		1.67767	8.32223		1.67777	9.68975
.4	6.04485	0.00010		9.99990	8.32353		1.67647	8.32343		1.67657	9.68973
.6	6.04725	0.00010		9.99990	8.32473		1.67527	8.32463		1.67537	9.68970
.8	6.04964	0.00010		9.99990	8.32592		1.67408	8.32582		1.67418	9.68967
13.0	6.05202	0.00010		9.99990	8.32711		1.67289	8.32702		1.67298	9.68965
.2	6.05440	0.00010		9.99990	8.32830		1.67170	8.32820		1.67180	9.68962
.4	6.05677	0.00010		9.99990	8.32949		1.67051	8.32939		1.67061	9.68960
.6	6.05913	0.00010		9.99990	8.33067		1.66933	8.33057		1.66943	9.68957
.8	6.06149	0.00010		9.99990	8.33185		1.66815	8.33175		1.66825	9.68955
14.0	6.06384	0.00010		9.99990	8.33302		1.66698	8.33292		1.66708	9.68952
.2	6.06618	0.00010		9.99990	8.33420		1.66580	8.33410		1.66590	9.68949
.4	6.06852	0.00010		9.99990	8.33537		1.66463	8.33527		1.66473	9.68947
.6	6.07085	0.00010		9.99990	8.33653		1.66347	8.33643		1.66357	9.68944
.8	6.07318	0.00010		9.99990	8.33770		1.66230	8.33759		1.66241	9.68942
15.0	6.07550	0.00010		9.99990	8.33886		1.66114	8.33875		1.66125	9.68939
.2	6.07781	0.00010		9.99990	8.34001		1.65999	8.33991		1.66009	9.68937
.4	6.08012	0.00010		9.99990	8.34117		1.65883	8.34106		1.65894	9.68934
.6	6.08242	0.00011		9.99989	8.34232		1.65768	8.34221		1.65779	9.68931
.8	6.08471	0.00011		9.99989	8.34347		1.65653	8.34336		1.65664	9.68929
16.0	6.08700	0.00011		9.99989	8.34461		1.65539	8.34450		1.65550	9.68926
.2	6.08928	0.00011		9.99989	8.34575		1.65425	8.34565		1.65435	9.68924
.4	6.09156	0.00011		9.99989	8.34689		1.65311	8.34678		1.65322	9.68921
.6	6.09383	0.00011		9.99989	8.34803		1.65197	8.34792		1.65208	9.68918
.8	6.09610	0.00011		9.99989	8.34916		1.65084	8.34905		1.65095	9.68916
17.0	6.09836	0.00011		9.99989	8.35029		1.64971	8.35018		1.64982	9.68913
.2	6.10061	0.00011		9.99989	8.35142		1.64858	8.35131		1.64869	9.68911
.4	6.10286	0.00011		9.99989	8.35254		1.64746	8.35243		1.64757	9.68908
.6	6.10510	0.00011		9.99989	8.35366		1.64634	8.35355		1.64645	9.68906
.8	6.10733	0.00011		9.99989	8.35478		1.64522	8.35467		1.64533	9.68903
18.0	6.10956	0.00011		9.99989	8.35590		1.64410	8.35578		1.64422	9.68900
.2	6.11179	0.00011		9.99989	8.35701		1.64299	8.35690		1.64310	9.68898
.4	6.11401	0.00011		9.99989	8.35812		1.64188	8.35800		1.64200	9.68895
.6	6.11622	0.00011		9.99989	8.35922		1.64078	8.35911		1.64089	9.68893
.8	6.11843	0.00011		9.99988	8.36033		1.63967	8.36021		1.63979	9.68890
19.0	6.12063	0.00011		9.99989	8.36143		1.63857	8.36131		1.63869	9.68887
.2	6.12282	0.00012		9.99988	8.36253		1.63747	8.36241		1.63759	9.68885
.4	6.12501	0.00012		9.99988	8.36362		1.63638	8.36351		1.63649	9.68882
.6	6.12720	0.00012		9.99988	8.36472		1.63528	8.36460		1.63540	9.68880
.8	6.12938	0.00012		9.99988	8.36581		1.63419	8.36569		1.63431	9.68877
20.0	6.13155	0.00012		9.99988	8.36689		1.63311	8.36678		1.63322	9.68874
.2	6.13372	0.00012		9.99988	8.36798		1.63202	8.36786		1.63214	9.68872
.4	6.13588	0.00012		9.99988	8.36906		1.63094	8.36894		1.63106	9.68869
.6	6.13804	0.00012		9.99988	8.37014		1.62986	8.37002		1.62998	9.68867
.8	6.14019	0.00012		9.99988	8.37122		1.62878	8.37110		1.62890	9.68864
21.0	6.14234	0.00012		9.99988	8.37229		1.62771	8.37217		1.62783	9.68862
.2	6.14448	0.00012		9.99988	8.37336		1.62664	8.37324		1.62676	9.68859
.4	6.14662	0.00012		9.99988	8.37443		1.62557	8.37431		1.62569	9.68856
.6	6.14875	0.00012		9.99988	8.37550		1.62450	8.37538		1.62462	9.68854
.8	6.15088	0.00012		9.99988	8.37656		1.62344	8.37644		1.62356	9.68851
22.0	6.15300	0.00012		9.99988	8.37762		1.62238	8.37750		1.62250	9.68849
.2	6.15511	0.00012		9.99988	8.37868		1.62132	8.37856		1.62144	9.68846
.4	6.15723	0.00012		9.99988	8.37974		1.62026	8.37961		1.62039	9.68843
.6	6.15933	0.00013		9.99987	8.38079		1.61921	8.38066		1.61934	9.68841
.8	6.16143	0.00013		9.99987	8.38184		1.61816	8.38171		1.61829	9.68838
23.0	6.16353	0.00013		9.99987	8.38289		1.61711	8.38276		1.61724	9.68836
.2	6.16562	0.00013		9.99987	8.38393		1.61607	8.38381		1.61619	9.68833
.4	6.16770	0.00013		9.99987	8.38498		1.61502	8.38485		1.61515	9.68830
.6	6.16978	0.00013		9.99987	8.38602		1.61398	8.38589		1.61411	9.68828
.8	6.17186	0.00013		9.99987	8.38706		1.61294	8.38693		1.61307	9.68825
		COSEC		SEN	COTG		TG	COS		SEC	SEMV
											88°

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

1°		1°								1°	
	SEMV	SEC		COS	TG		COTG	SEN		COSEC	
24.0	6.17393	0.00013		9.99987	8.38809		1.61191	8.38796		1.61204	9.68823
.2	6.17599	0.00013		9.99987	8.38912		1.61088	8.38899		1.61101	9.68820
.4	6.17806	0.00013		9.99987	8.39016		1.60984	8.39002		1.60998	9.68818
.6	6.18011	0.00013		9.99987	8.39118		1.60882	8.39105		1.60895	9.68815
.8	6.18216	0.00013		9.99987	8.39221		1.60779	8.39208		1.60792	9.68812
25.0	6.18421	0.00013		9.99987	8.39323		1.60677	8.39310		1.60690	9.68810
.2	6.18625	0.00013		9.99987	8.39425		1.60575	8.39412		1.60588	9.68807
.4	6.18829	0.00013		9.99987	8.39527		1.60473	8.39514		1.60486	9.68805
.6	6.19032	0.00013		9.99987	8.39629		1.60371	8.39615		1.60385	9.68802
.8	6.19234	0.00014		9.99986	8.39730		1.60270	8.39717		1.60283	9.68799
26.0	6.19437	0.00014		9.99986	8.39832		1.60168	8.39818		1.60182	9.68797
.2	6.19638	0.00014		9.99986	8.39932		1.60068	8.39919		1.60081	9.68794
.4	6.19840	0.00014		9.99986	8.40033		1.59967	8.40019		1.59981	9.68792
.6	6.20040	0.00014		9.99986	8.40134		1.59866	8.40120		1.59880	9.68789
.8	6.20241	0.00014		9.99986	8.40234		1.59766	8.40220		1.59780	9.68786
27.0	6.20441	0.00014		9.99986	8.40334		1.59666	8.40320		1.59680	9.68784
.2	6.20640	0.00014		9.99986	8.40434		1.59566	8.40420		1.59580	9.68781
.4	6.20839	0.00014		9.99986	8.40533		1.59467	8.40519		1.59481	9.68779
.6	6.21038	0.00014		9.99986	8.40632		1.59368	8.40618		1.59382	9.68776
.8	6.21236	0.00014		9.99986	8.40731		1.59269	8.40717		1.59283	9.68774
28.0	6.21433	0.00014		9.99986	8.40830		1.59170	8.40816		1.59184	9.68771
.2	6.21631	0.00014		9.99986	8.40929		1.59071	8.40915		1.59085	9.68768
.4	6.21827	0.00014		9.99986	8.41027		1.58973	8.41013		1.58987	9.68766
.6	6.22024	0.00014		9.99986	8.41126		1.58874	8.41111		1.58889	9.68763
.8	6.22219	0.00014		9.99986	8.41224		1.58776	8.41209		1.58791	9.68761
29.0	6.22415	0.00015		9.99985	8.41321		1.58679	8.41307		1.58693	9.68758
.2	6.22610	0.00015		9.99985	8.41419		1.58581	8.41404		1.58596	9.68755
.4	6.22804	0.00015		9.99985	8.41516		1.58484	8.41501		1.58499	9.68753
.6	6.22998	0.00015		9.99985	8.41613		1.58387	8.41598		1.58402	9.68750
.8	6.23192	0.00015		9.99985	8.41710		1.58290	8.41695		1.58305	9.68748
30.0	6.23385	0.00015		9.99985	8.41807		1.58193	8.41792		1.58208	9.68745
.2	6.23578	0.00015		9.99985	8.41903		1.58097	8.41888		1.58112	9.68742
.4	6.23770	0.00015		9.99985	8.41999		1.58001	8.41984		1.58016	9.68740
.6	6.23962	0.00015		9.99985	8.42095		1.57905	8.42080		1.57920	9.68737
.8	6.24154	0.00015		9.99985	8.42191		1.57809	8.42176		1.57824	9.68735
31.0	6.24345	0.00015		9.99985	8.42287		1.57713	8.42272		1.57728	9.68732
.2	6.24536	0.00015		9.99985	8.42382		1.57618	8.42367		1.57633	9.68729
.4	6.24726	0.00015		9.99985	8.42477		1.57523	8.42462		1.57538	9.68727
.6	6.24916	0.00015		9.99985	8.42572		1.57428	8.42557		1.57443	9.68724
.8	6.25105	0.00015		9.99985	8.42667		1.57333	8.42652		1.57348	9.68722
32.0	6.25294	0.00016		9.99984	8.42762		1.57238	8.42746		1.57254	9.68719
.2	6.25483	0.00016		9.99984	8.42856		1.57144	8.42840		1.57160	9.68716
.4	6.25671	0.00016		9.99984	8.42950		1.57050	8.42935		1.57065	9.68714
.6	6.25859	0.00016		9.99984	8.43044		1.56956	8.43028		1.56972	9.68711
.8	6.26046	0.00016		9.99984	8.43138		1.56862	8.43122		1.56878	9.68709
33.0	6.26233	0.00017		9.99984	8.43231		1.56769	8.43216		1.56784	9.68706
.2	6.26420	0.00017		9.99984	8.43325		1.56675	8.43309		1.56691	9.68703
.4	6.26606	0.00017		9.99984	8.43418		1.56582	8.43402		1.56598	9.68701
.6	6.26792	0.00017		9.99984	8.43511		1.56489	8.43495		1.56505	9.68698
.8	6.26977	0.00017		9.99984	8.43604		1.56396	8.43587		1.56413	9.68696
34.0	6.27162	0.00016		9.99984	8.43696		1.56304	8.43680		1.56320	9.68693
.2	6.27347	0.00016		9.99984	8.43789		1.56211	8.43772		1.56228	9.68690
.4	6.27531	0.00016		9.99984	8.43881		1.56119	8.43864		1.56136	9.68688
.6	6.27715	0.00016		9.99984	8.43973		1.56027	8.43956		1.56044	9.68685
.8	6.27898	0.00017		9.99983	8.44064		1.55936	8.44048		1.55952	9.68683
35.0	6.28081	0.00017		9.99983	8.44156		1.55844	8.44139		1.55861	9.68680
.2	6.28264	0.00017		9.99983	8.44247		1.55753	8.44231		1.55769	9.68678
.4	6.28446	0.00017		9.99983	8.44339		1.55661	8.44322		1.55678	9.68675
.6	6.28628	0.00017		9.99983	8.44430		1.55570	8.44413		1.55587	9.68672
.8	6.28809	0.00017		9.99983	8.44520		1.55480	8.44504		1.55496	9.68670
		COSEC		SEN	COTG		TG	COS		COS	SEMV
											88°

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

1°	1°									
	SEMV	SEC		COS	TG		COTG	SEN		COSEC
36.0	6.28991	0.00017		9.99983	8.44611		1.55389	8.44594		1.55406
.2	6.29171	0.00017		9.99983	8.44701		1.55299	8.44684		1.55316
.4	6.29352	0.00017		9.99983	8.44792		1.55208	8.44775		1.55225
.6	6.29532	0.00017		9.99983	8.44882		1.55118	8.44865		1.55135
.8	6.29711	0.00017		9.99983	8.44972		1.55028	8.44954		1.55046
37.0	6.29891	0.00017		9.99983	8.45061		1.54939	8.45044		1.54956
.2	6.30070	0.00017		9.99983	8.45151		1.54849	8.45133		1.54867
.4	6.30248	0.00017		9.99983	8.45240		1.54760	8.45223		1.54777
.6	6.30426	0.00018		9.99982	8.45329		1.54671	8.45312		1.54688
.8	6.30604	0.00018		9.99982	8.45418		1.54582	8.45401		1.54599
38.0	6.30781	0.00018		9.99982	8.45507		1.54493	8.45489		1.54511
.2	6.30959	0.00018		9.99982	8.45596		1.54404	8.45578		1.54422
.4	6.31135	0.00018		9.99982	8.45684		1.54316	8.45666		1.54334
.6	6.31312	0.00018		9.99982	8.45772		1.54228	8.45754		1.54246
.8	6.31488	0.00018		9.99982	8.45860		1.54140	8.45842		1.54158
39.0	6.31663	0.00018		9.99982	8.45948		1.54052	8.45930		1.54070
.2	6.31839	0.00018		9.99982	8.46036		1.53964	8.46018		1.53982
.4	6.32013	0.00018		9.99982	8.46123		1.53877	8.46105		1.53895
.6	6.32188	0.00018		9.99982	8.46211		1.53789	8.46192		1.53808
.8	6.32362	0.00018		9.99982	8.46298		1.53702	8.46280		1.53720
40.0	6.32536	0.00018		9.99982	8.46385		1.53615	8.46366		1.53634
.2	6.32710	0.00018		9.99982	8.46472		1.53528	8.46453		1.53547
.4	6.32883	0.00019		9.99981	8.46558		1.53442	8.46540		1.53460
.6	6.33056	0.00019		9.99981	8.46645		1.53355	8.46626		1.53374
.8	6.33228	0.00019		9.99981	8.46731		1.53269	8.46712		1.53288
41.0	6.33400	0.00019		9.99981	8.46817		1.53183	8.46798		1.53202
.2	6.33572	0.00019		9.99981	8.46903		1.53097	8.46884		1.53116
.4	6.33744	0.00019		9.99981	8.46989		1.53011	8.46970		1.53030
.6	6.33915	0.00019		9.99981	8.47075		1.52925	8.47056		1.52944
.8	6.34086	0.00019		9.99981	8.47160		1.52840	8.47141		1.52859
42.0	6.34256	0.00019		9.99981	8.47245		1.52755	8.47226		1.52774
.2	6.34426	0.00019		9.99981	8.47330		1.52670	8.47311		1.52689
.4	6.34596	0.00019		9.99981	8.47415		1.52585	8.47396		1.52604
.6	6.34765	0.00019		9.99981	8.47500		1.52500	8.47481		1.52519
.8	6.34935	0.00019		9.99981	8.47585		1.52415	8.47565		1.52435
43.0	6.35103	0.00019		9.99981	8.47669		1.52331	8.47650		1.52350
.2	6.35272	0.00020		9.99980	8.47754		1.52246	8.47734		1.52266
.4	6.35440	0.00020		9.99980	8.47838		1.52162	8.47818		1.52182
.6	6.35608	0.00020		9.99980	8.47922		1.52078	8.47902		1.52098
.8	6.35775	0.00020		9.99980	8.48006		1.51994	8.47986		1.52014
44.0	6.35943	0.00020		9.99980	8.48089		1.51911	8.48069		1.51931
.2	6.36109	0.00020		9.99980	8.48173		1.51827	8.48153		1.51847
.4	6.36276	0.00020		9.99980	8.48256		1.51744	8.48236		1.51764
.6	6.36442	0.00020		9.99980	8.48339		1.51661	8.48319		1.51681
.8	6.36608	0.00020		9.99980	8.48422		1.51578	8.48402		1.51598
45.0	6.36774	0.00020		9.99980	8.48505		1.51495	8.48485		1.51515
.2	6.36939	0.00020		9.99980	8.48588		1.51412	8.48567		1.51433
.4	6.37104	0.00020		9.99980	8.48670		1.51330	8.48650		1.51350
.6	6.37269	0.00020		9.99980	8.48753		1.51247	8.48732		1.51268
.8	6.37433	0.00021		9.99979	8.48835		1.51165	8.48814		1.51186
46.0	6.37597	0.00021		9.99979	8.48917		1.51083	8.48896		1.51104
.2	6.37761	0.00021		9.99979	8.48999		1.51001	8.48978		1.51022
.4	6.37924	0.00021		9.99979	8.49081		1.50919	8.49060		1.50940
.6	6.38087	0.00021		9.99979	8.49162		1.50838	8.49141		1.50859
.8	6.38250	0.00021		9.99979	8.49244		1.50756	8.49223		1.50777
47.0	6.38412	0.00021		9.99979	8.49325		1.50675	8.49304		1.50696
.2	6.38575	0.00021		9.99979	8.49406		1.50594	8.49385		1.50615
.4	6.38737	0.00021		9.99979	8.49487		1.50513	8.49466		1.50534
.6	6.38898	0.00021		9.99979	8.49568		1.50432	8.49547		1.50453
.8	6.39059	0.00021		9.99979	8.49649		1.50351	8.49627		1.50373
	COSEC			SEN	COTG		TG	COS		SEC
	88°									88°

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

1°		1°											
SEMV		SEC		COS	TG		COTG	SEN		COSEC			
48.0	6.39220	0.00021		9.99979	8.49729		1.50271	8.49708		1.50292	9.68511	12.0	
.2	6.39381	0.00022		9.99978	8.49810		1.50190	8.49788		1.50212	9.68508	11.8	
.4	6.39541	0.00022		9.99978	8.49890		1.50110	8.49868		1.50132	9.68506	11.6	
.6	6.39702	0.00022		9.99978	8.49970		1.50030	8.49948		1.50052	9.68503	11.4	
.8	6.39861	0.00022		9.99978	8.50050		1.49950	8.50028		1.49972	9.68501	11.2	
49.0	6.40021	0.00022		9.99978	8.50130		1.49870	8.50108		1.49892	9.68498	11.0	
.2	6.40180	0.00022		9.99978	8.50209		1.49791	8.50188		1.49812	9.68495	10.8	
.4	6.40339	0.00022		9.99978	8.50289		1.49711	8.50267		1.49733	9.68493	10.6	
.6	6.40498	0.00022		9.99978	8.50368		1.49632	8.50346		1.49654	9.68490	10.4	
.8	6.40656	0.00022		9.99978	8.50448		1.49552	8.50425		1.49575	9.68487	10.2	
50.0	6.40814	0.00022		9.99978	8.50527		1.49473	8.50504		1.49496	9.68485	10.0	
.2	6.40972	0.00022		9.99978	8.50606		1.49394	8.50583		1.49417	9.68482	99.8	
.4	6.41129	0.00022		9.99978	8.50684		1.49316	8.50662		1.49338	9.68480	99.6	
.6	6.41286	0.00022		9.99978	8.50763		1.49237	8.50741		1.49259	9.68477	99.4	
.8	6.41443	0.00023		9.99977	8.50842		1.49158	8.50819		1.49181	9.68474	99.2	
51.0	6.41600	0.00023		9.99977	8.50920		1.49080	8.50897		1.49103	9.68472	99.0	
.2	6.41756	0.00023		9.99977	8.50998		1.49002	8.50976		1.49024	9.68469	98.8	
.4	6.41912	0.00023		9.99977	8.51076		1.48924	8.51054		1.48946	9.68467	98.6	
.6	6.42068	0.00023		9.99977	8.51154		1.48846	8.51131		1.48869	9.68464	98.4	
.8	6.42224	0.00023		9.99977	8.51232		1.48768	8.51209		1.48791	9.68461	98.2	
52.0	6.42379	0.00023		9.99977	8.51310		1.48690	8.51287		1.48713	9.68459	98.0	
.2	6.42534	0.00023		9.99977	8.51387		1.48613	8.51364		1.48636	9.68456	97.8	
.4	6.42689	0.00023		9.99977	8.51465		1.48535	8.51441		1.48559	9.68454	97.6	
.6	6.42843	0.00023		9.99977	8.51542		1.48458	8.51519		1.48481	9.68451	97.4	
.8	6.42997	0.00023		9.99977	8.51619		1.48381	8.51596		1.48404	9.68448	97.2	
53.0	6.43151	0.00023		9.99977	8.51696		1.48304	8.51673		1.48327	9.68446	97.0	
.2	6.43305	0.00024		9.99976	8.51773		1.48227	8.51749		1.48251	9.68443	96.8	
.4	6.43458	0.00024		9.99976	8.51850		1.48150	8.51826		1.48174	9.68440	96.6	
.6	6.43611	0.00024		9.99976	8.51926		1.48074	8.51903		1.48097	9.68438	96.4	
.8	6.43764	0.00024		9.99976	8.52003		1.47997	8.51979		1.48021	9.68435	96.2	
54.0	6.43916	0.00024		9.99976	8.52079		1.47921	8.52055		1.47945	9.68433	96.0	
.2	6.44068	0.00024		9.99976	8.52155		1.47845	8.52131		1.47869	9.68430	95.8	
.4	6.44220	0.00024		9.99976	8.52231		1.47769	8.52207		1.47793	9.68427	95.6	
.6	6.44372	0.00024		9.99976	8.52307		1.47693	8.52283		1.47717	9.68425	95.4	
.8	6.44524	0.00024		9.99976	8.52383		1.47617	8.52359		1.47641	9.68422	95.2	
55.0	6.44675	0.00024		9.99976	8.52459		1.47541	8.52434		1.47566	9.68420	95.0	
.2	6.44826	0.00024		9.99976	8.52534		1.47466	8.52510		1.47490	9.68417	94.8	
.4	6.44976	0.00024		9.99976	8.52609		1.47391	8.52585		1.47415	9.68414	94.6	
.6	6.45127	0.00025		9.99975	8.52685		1.47315	8.52660		1.47340	9.68412	94.4	
.8	6.45277	0.00025		9.99975	8.52760		1.47240	8.52735		1.47265	9.68409	94.2	
56.0	6.45427	0.00025		9.99975	8.52835		1.47165	8.52810		1.47190	9.68407	94.0	
.2	6.45576	0.00025		9.99975	8.52910		1.47090	8.52885		1.47115	9.68404	93.8	
.4	6.45726	0.00025		9.99975	8.52984		1.47016	8.52960		1.47040	9.68401	93.6	
.6	6.45875	0.00025		9.99975	8.53059		1.46941	8.53034		1.46966	9.68399	93.4	
.8	6.46024	0.00025		9.99975	8.53134		1.46866	8.53109		1.46891	9.68396	93.2	
57.0	6.46172	0.00025		9.99975	8.53208		1.46792	8.53183		1.46817	9.68393	93.0	
.2	6.46321	0.00025		9.99975	8.53282		1.46718	8.53257		1.46743	9.68391	92.8	
.4	6.46469	0.00025		9.99975	8.53356		1.46644	8.53331		1.46669	9.68388	92.6	
.6	6.46616	0.00025		9.99975	8.53430		1.46570	8.53405		1.46595	9.68386	92.4	
.8	6.46764	0.00026		9.99974	8.53504		1.46496	8.53479		1.46521	9.68383	92.2	
58.0	6.46911	0.00026		9.99974	8.53578		1.46422	8.53552		1.46448	9.68380	92.0	
.2	6.47068	0.00026		9.99974	8.53651		1.46349	8.53626		1.46374	9.68378	91.8	
.4	6.47205	0.00026		9.99974	8.53725		1.46275	8.53699		1.46301	9.68375	91.6	
.6	6.47352	0.00026		9.99974	8.53798		1.46202	8.53772		1.46228	9.68373	91.4	
.8	6.47498	0.00026		9.99974	8.53872		1.46128	8.53846		1.46154	9.68370	91.2	
59.0	6.47644	0.00026		9.99974	8.53945		1.46055	8.53919		1.46081	9.68367	91.0	
.2	6.47790	0.00026		9.99974	8.54018		1.45982	8.53992		1.46008	9.68365	90.8	
.4	6.47936	0.00026		9.99974	8.54091		1.45909	8.54064		1.45936	9.68362	90.6	
.6	6.48081	0.00026		9.99974	8.54163		1.45837	8.54137		1.45863	9.68359	90.4	
.8	6.48226	0.00026		9.99974	8.54236		1.45764	8.54209		1.45791	9.68357	90.2	
60.0	6.48371	0.00026		9.99974	8.54308		1.45692	8.54282		1.45718	9.68354	90.0	
COSEC				SEN	COTG		TG	COS		SEC	SEMV	88°	

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

2°	2°										13				7
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	1	.6	8	
0'	6.48371	0.00026		9.99974	8.54308	360	1.45692	8.54282	350	1.45718	9.68354				60'
1	6.49092	0.00027		9.99973	8.54669	.1 36	1.45331	8.54642	.1 35	1.45358	9.68341				59
2	6.49807	0.00027		9.99973	8.55027	.2 72	1.44973	8.54999	.2 70	1.45001	9.68328				58
3	6.50516	0.00028		9.99972	8.55382	.3 108	1.44618	8.55354	.3 105	1.44646	9.68315				57
4	6.51219	0.00028		9.99972	8.55734	.4 144	1.44266	8.55705	.4 140	1.44295	9.68302				56
5	6.51916	0.00029		9.99971	8.56083	.5 180	1.43917	8.56054	.5 175	1.43946	9.68289				55
6	6.52608	0.00029		9.99971	8.56429	.6 216	1.43571	8.56400	.6 210	1.43600	9.68276				54
7	6.53295	0.00030		9.99970	8.56773	.7 252	1.43227	8.56743	.7 245	1.43257	9.68263				53
8	6.53976	0.00030		9.99970	8.57114	.8 288	1.42886	8.57084	.8 280	1.42916	9.68249				52
9	6.54652	0.00031		9.99969	8.57452	.9 324	1.42548	8.57421	.9 315	1.42579	9.68236				51
10	6.55323	0.00031		9.99969	8.57788	340	1.42212	8.57757	330	1.42243	9.68223				50
1	6.55988	0.00032		9.99968	8.58121	.1 34	1.41879	8.58089	.1 33	1.41911	9.68210				49
2	6.56649	0.00032		9.99968	8.58451	.2 68	1.41549	8.58419	.2 66	1.41581	9.68197				48
3	6.57304	0.00033		9.99967	8.58779	.3 102	1.41221	8.58747	.3 99	1.41253	9.68184				47
4	6.57955	0.00033		9.99967	8.59105	.4 136	1.40895	8.59072	.4 132	1.40928	9.68171				46
5	6.58600	0.00033		9.99967	8.59428	.5 170	1.40572	8.59395	.5 165	1.40605	9.68158				45
6	6.59241	0.00034		9.99966	8.59749	.6 204	1.40251	8.59715	.6 198	1.40285	9.68144				44
7	6.59878	0.00034		9.99966	8.60068	.7 238	1.39932	8.60033	.7 231	1.39967	9.68131				43
8	6.60509	0.00035		9.99965	8.60384	.8 272	1.39616	8.60349	.8 264	1.39651	9.68118				42
9	6.61136	0.00036		9.99964	8.60698	.9 306	1.39302	8.60662	.9 297	1.39338	9.68105				41
20	6.61759	0.00036		9.99964	8.61009	320	1.38991	8.60973	310	1.39027	9.68092				40
1	6.62377	0.00037		9.99963	8.61319	.1 32	1.38681	8.61282	.1 31	1.38718	9.68079				39
2	6.62991	0.00037		9.99963	8.61626	.2 64	1.38374	8.61589	.2 62	1.38411	9.68066				38
3	6.63600	0.00038		9.99962	8.61931	.3 96	1.38069	8.61894	.3 93	1.38106	9.68052				37
4	6.64205	0.00038		9.99962	8.62234	.4 128	1.37766	8.62196	.4 124	1.37804	9.68039				36
5	6.64806	0.00039		9.99961	8.62535	.5 160	1.37465	8.62497	.5 155	1.37503	9.68026				35
6	6.65403	0.00039		9.99961	8.62834	.6 192	1.37166	8.62795	.6 188	1.37205	9.68013				34
7	6.65996	0.00040		9.99960	8.63131	.7 224	1.36869	8.63091	.7 217	1.36909	9.68000				33
8	6.66586	0.00040		9.99960	8.63426	.8 256	1.36574	8.63385	.8 248	1.36615	9.67986				32
9	6.67170	0.00041		9.99959	8.63718	.9 288	1.36282	8.63678	.9 279	1.36322	9.67973				31
30	6.67751	0.00041		9.99959	8.64009	300	1.35991	8.63968	290	1.36032	9.67960				30
1	6.68328	0.00042		9.99958	8.64298	.1 30	1.35702	8.64256	.1 29	1.35744	9.67947				29
2	6.68901	0.00042		9.99958	8.64585	.2 60	1.35415	8.64543	.2 58	1.35457	9.67934				28
3	6.69470	0.00043		9.99957	8.64870	.3 90	1.35130	8.64827	.3 87	1.35173	9.67920				27
4	6.70036	0.00044		9.99956	8.65154	.4 120	1.34846	8.65110	.4 116	1.34890	9.67907				26
5	6.70598	0.00044		9.99956	8.65435	.5 150	1.34565	8.65391	.5 145	1.34609	9.67894				25
6	6.71157	0.00045		9.99955	8.65715	.6 180	1.34285	8.65670	.6 174	1.34330	9.67881				24
7	6.71712	0.00045		9.99955	8.65993	.7 210	1.34007	8.65947	.7 203	1.34053	9.67868				23
8	6.72263	0.00046		9.99954	8.66269	.8 240	1.33731	8.66223	.8 232	1.33777	9.67854				22
9	6.72811	0.00046		9.99954	8.66543	.9 270	1.33457	8.66497	.9 261	1.33503	9.67841				21
40	6.73355	0.00047		9.99953	8.66816	280	1.33184	8.66769	270	1.33231	9.67828				20
1	6.73896	0.00048		9.99952	8.67087	.1 28	1.32913	8.67039	.1 27	1.32961	9.67815				19
2	6.74434	0.00048		9.99952	8.67356	.2 56	1.32644	8.67308	.2 54	1.32692	9.67802				18
3	6.74969	0.00049		9.99951	8.67624	.3 84	1.32376	8.67575	.3 81	1.32425	9.67788				17
4	6.75500	0.00049		9.99951	8.67890	.4 112	1.32110	8.67841	.4 108	1.32159	9.67775				16
5	6.76028	0.00050		9.99950	8.68154	.5 140	1.31846	8.68104	.5 135	1.31896	9.67762				15
6	6.76552	0.00051		9.99949	8.68417	.6 168	1.31583	8.68367	.6 162	1.31633	9.67748				14
7	6.77074	0.00051		9.99949	8.68678	.7 196	1.31322	8.68627	.7 189	1.31373	9.67735				13
8	6.77592	0.00052		9.99948	8.68938	.8 224	1.31062	8.68886	.8 216	1.31114	9.67722				12
9	6.78108	0.00052		9.99948	8.69196	.9 252	1.30804	8.69144	.9 243	1.30856	9.67709				11
50	6.78620	0.00053		9.99947	8.69453	260	1.30547	8.69400	250	1.30600	9.67695				10
1	6.79129	0.00054		9.99946	8.69708	.1 26	1.30292	8.69654	.1 25	1.30346	9.67682				9
2	6.79636	0.00054		9.99946	8.69962	.2 52	1.30038	8.69907	.2 50	1.30093	9.67669				8
3	6.80139	0.00055		9.99945	8.70214	.3 78	1.29786	8.70159	.3 75	1.29841	9.67656				7
4	6.80640	0.00056		9.99944	8.70465	.4 104	1.29535	8.70409	.4 100	1.29591	9.67642				6
5	6.81137	0.00056		9.99944	8.70714	.5 130	1.29286	8.70658	.5 125	1.29342	9.67629				5
6	6.81632	0.00057		9.99943	8.70962	.6 156	1.29038	8.70905	.6 150	1.29095	9.67616				4
7	6.82124	0.00058		9.99942	8.71208	.7 182	1.28792	8.71151	.7 175	1.28849	9.67602				3
8	6.82613	0.00058		9.99942	8.71453	.8 208	1.28547	8.71395	.8 200	1.28605	9.67589				2
9	6.83100	0.00059		9.99941	8.71697	.9 234	1.28303	8.71638	.9 225	1.28362	9.67576				1
60	6.83584	0.00060		9.99940	8.71940		1.28060	8.71880		1.28120	9.67562				0
COSEC PP SEN COTG PP TG COS PP SEC											SEMV	87°			

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

3°		3°										13		.5		7	
SEMV		SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	1	.6	8			
0'	6.83584	0.00060		9.99940	8.71940	240	1.28060	8.71880	236	1.28120	9.67562		60'				
1	6.84065	0.00060		9.99940	8.72181	.1 24	1.27819	8.72120	.1 24	1.27880	9.67549		59				
2	6.84543	0.00061		9.99939	8.72420	.2 48	1.27580	8.72359	.2 47	1.27641	9.67536		58				
3	6.85019	0.00062		9.99938	8.72659	.3 72	1.27341	8.72597	.3 71	1.27403	9.67522		57				
4	6.85492	0.00062		9.99938	8.72896	.4 96	1.27104	8.72834	.4 94	1.27166	9.67509		56				
5	6.85963	0.00063		9.99937	8.73132	.5 120	1.26868	8.73069	.5 118	1.26931	9.67496		55				
6	6.86431	0.00064		9.99936	8.73366	.6 144	1.26634	8.73303	.6 141	1.26697	9.67482		54				
7	6.86897	0.00064		9.99936	8.73600	.7 168	1.26400	8.73535	.7 165	1.26465	9.67469		53				
8	6.87360	0.00065		9.99935	8.73832	.8 192	1.26168	8.73767	.8 188	1.26233	9.67456		52				
9	6.87821	0.00066		9.99934	8.74063	.9 216	1.25937	8.73997	.9 212	1.26003	9.67442		51				
10	6.88279	0.00066		9.99934	8.74292	230	1.25708	8.74226	226	1.25774	9.67429		50				
1	6.88735	0.00067		9.99933	8.74521	.1 23	1.25479	8.74454	.1 23	1.25546	9.67416		49				
2	6.89188	0.00068		9.99932	8.74748	.2 46	1.25252	8.74680	.2 45	1.25320	9.67402		48				
3	6.89639	0.00068		9.99932	8.74974	.3 69	1.25026	8.74906	.3 68	1.25094	9.67389		47				
4	6.90088	0.00069		9.99931	8.75199	.4 92	1.24801	8.75130	.4 90	1.24870	9.67376		46				
5	6.90534	0.00070		9.99930	8.75423	.5 115	1.24577	8.75353	.5 113	1.24647	9.67362		45				
6	6.90979	0.00071		9.99929	8.75645	.6 138	1.24355	8.75575	.6 135	1.24425	9.67349		44				
7	6.91421	0.00071		9.99929	8.75867	.7 161	1.24133	8.75795	.7 158	1.24205	9.67336		43				
8	6.91860	0.00072		9.99928	8.76087	.8 184	1.23913	8.76015	.8 180	1.23985	9.67322		42				
9	6.92298	0.00073		9.99927	8.76306	.9 207	1.23694	8.76234	.9 203	1.23766	9.67309		41				
20	6.92733	0.00074		9.99926	8.76525	220	1.23475	8.76451	215	1.23549	9.67295		40				
1	6.93166	0.00074		9.99926	8.76742	.1 22	1.23258	8.76667	.1 22	1.23333	9.67282		39				
2	6.93597	0.00075		9.99925	8.76958	.2 44	1.23042	8.76883	.2 43	1.23117	9.67269		38				
3	6.94026	0.00076		9.99924	8.77173	.3 66	1.22827	8.77097	.3 65	1.22903	9.67255		37				
4	6.94452	0.00077		9.99923	8.77387	.4 88	1.22613	8.77310	.4 86	1.22690	9.67242		36				
5	6.94877	0.00077		9.99923	8.77600	.5 110	1.22400	8.77522	.5 108	1.22478	9.67228		35				
6	6.95300	0.00078	1	9.99922	8.77811	.6 132	1.22189	8.77733	.6 129	1.22267	9.67215		34				
7	6.95720	0.00079	.1 0	9.99921	8.78022	.7 154	1.21978	8.77943	.7 151	1.22057	9.67202		33				
8	6.96139	0.00080	.2 0	9.99920	8.78232	.8 176	1.21768	8.78152	.8 172	1.21848	9.67188		32				
9	6.96555	0.00080	.3 0	9.99920	8.78441	.9 198	1.21559	8.78360	.9 194	1.21640	9.67175		31				
30	6.96970	0.00081	.4 0	9.99919	8.78649	210	1.21351	8.78568	206	1.21432	9.67161		30				
1	6.97382	0.00082	.5 1	9.99918	8.78855	.1 21	1.21145	8.78774	.1 21	1.21226	9.67148		29				
2	6.97793	0.00083	.6 1	9.99917	8.79061	.2 42	1.20939	8.78979	.2 41	1.21021	9.67134		28				
3	6.98201	0.00083	.7 1	9.99917	8.79266	.3 63	1.20734	8.79183	.3 62	1.20817	9.67121		27				
4	6.98608	0.00084	.8 1	9.99916	8.79470	.4 84	1.20530	8.79386	.4 82	1.20614	9.67108		26				
5	6.99013	0.00085	.9 1	9.99915	8.79673	.5 105	1.20327	8.79588	.5 103	1.20412	9.67094		25				
6	6.99416	0.00086		9.99914	8.79875	.6 126	1.20125	8.79789	.6 123	1.20211	9.67081		24				
7	6.99817	0.00087		9.99913	8.80076	.7 147	1.19924	8.79990	.7 144	1.20010	9.67067		23				
8	7.00216	0.00087		9.99913	8.80277	.8 168	1.19723	8.80189	.8 164	1.19811	9.67054		22				
9	7.00613	0.00088		9.99912	8.80476	.9 189	1.19524	8.80388	.9 185	1.19612	9.67040		21				
40	7.01009	0.00089		9.99911	8.80674	200	1.19326	8.80585	195	1.19415	9.67027		20				
1	7.01403	0.00090		9.99910	8.80872	.1 20	1.19128	8.80782	.1 20	1.19218	9.67013		19				
2	7.01795	0.00091		9.99909	8.81068	.2 40	1.18932	8.80978	.2 39	1.19022	9.67000		18				
3	7.02185	0.00091		9.99909	8.81264	.3 60	1.18736	8.81173	.3 59	1.18827	9.66986		17				
4	7.02573	0.00092		9.99908	8.81459	.4 80	1.18541	8.81367	.4 78	1.18633	9.66973		16				
5	7.02960	0.00093		9.99907	8.81653	.5 100	1.18347	8.81560	.5 98	1.18440	9.66959		15				
6	7.03345	0.00094		9.99906	8.81846	.6 120	1.18154	8.81752	.6 117	1.18248	9.66946		14				
7	7.03729	0.00095		9.99905	8.82038	.7 140	1.17962	8.81944	.7 137	1.18056	9.66932		13				
8	7.04110	0.00096		9.99904	8.82230	.8 160	1.17770	8.82134	.8 156	1.17866	9.66919		12				
9	7.04490	0.00096		9.99904	8.82420	.9 180	1.17580	8.82324	.9 176	1.17676	9.66905		11				
50	7.04869	0.00097		9.99903	8.82610	190	1.17390	8.82513	186	1.17487	9.66892		10				
1	7.05245	0.00098		9.99902	8.82799	.1 19	1.17201	8.82701	.1 19	1.17299	9.66878		9				
2	7.05620	0.00099		9.99901	8.82987	.2 38	1.17013	8.82888	.2 37	1.17112	9.66865		8				
3	7.05994	0.00100		9.99900	8.83175	.3 57	1.16825	8.83075	.3 56	1.16925	9.66851		7				
4	7.06366	0.00101		9.99899	8.83361	.4 76	1.16639	8.83261	.4 74	1.16739	9.66838		6				
5	7.06736	0.00102		9.99898	8.83547	.5 95	1.16453	8.83446	.5 93	1.16554	9.66824		5				
6	7.07105	0.00102		9.99898	8.83732	.6 114	1.16268	8.83630	.6 111	1.16370	9.66811		4				
7	7.07472	0.00103		9.99897	8.83916	.7 133	1.16084	8.83813	.7 130	1.16187	9.66797		3				
8	7.07837	0.00104		9.99896	8.84100	.8 152	1.15900	8.83996	.8 148	1.16004	9.66784		2				
9	7.08201	0.00105		9.99895	8.84282	.9 171	1.15718	8.84177	.9 167	1.15823	9.66770		1				
60	7.08564	0.00106		9.99894	8.84454		1.15536	8.84358		1.15642	9.66757		0				
COSEC		PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV	86°						

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

4°		4°										14			7									
SEMV		SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4	.5	.6	.7	.8	.9	10	11	12	13	
0	7.08564	0.00106		9.99894	8.84464	182	1.15536	8.84358	179	1.15642	9.66757													60
1	7.08925	0.00107		9.99893	8.84646	.1 18	1.15354	8.84539	.1 18	1.15461	9.66743													59
2	7.09284	0.00108		9.99892	8.84826	.2 36	1.15174	8.84718	.2 36	1.15282	9.66730													58
3	7.09642	0.00109		9.99891	8.85006	.3 55	1.14994	8.84897	.3 54	1.15103	9.66716													57
4	7.09999	0.00109		9.99891	8.85185	.4 73	1.14815	8.85075	.4 72	1.14925	9.66702													56
5	7.10364	0.00110		9.99890	8.85363	.5 91	1.14637	8.85252	.5 90	1.14748	9.66689													55
6	7.10708	0.00111		9.99889	8.85540	.6 109	1.14460	8.85429	.6 107	1.14571	9.66675													54
7	7.11060	0.00112		9.99888	8.85717	.7 127	1.14283	8.85605	.7 125	1.14395	9.66662													53
8	7.11411	0.00113		9.99887	8.85893	.8 148	1.14107	8.85780	.8 143	1.14220	9.66648													52
9	7.11760	0.00114		9.99886	8.86069	.9 164	1.13931	8.85955	.9 161	1.14045	9.66635													51
10	7.12108	0.00115		9.99885	8.86243	176	1.13757	8.86128	173	1.13872	9.66621													50
1	7.12455	0.00116		9.99884	8.86417	.1 18	1.13583	8.86301	.1 17	1.13689	9.66607													49
2	7.12800	0.00117		9.99883	8.86591	.2 35	1.13409	8.86474	.2 35	1.13526	9.66594													48
3	7.13144	0.00118		9.99882	8.86763	.3 53	1.13237	8.86645	.3 52	1.13355	9.66580													47
4	7.13486	0.00119		9.99881	8.86935	.4 70	1.13065	8.86816	.4 69	1.13184	9.66567													46
5	7.13827	0.00120		9.99880	8.87106	.5 88	1.12894	8.86987	.5 87	1.13013	9.66553													45
6	7.14167	0.00121		9.99879	8.87277	.6 106	1.12723	8.87156	.6 104	1.12844	9.66539													44
7	7.14506	0.00121		9.99879	8.87447	.7 123	1.12553	8.87325	.7 121	1.12675	9.66526													43
8	7.14843	0.00122		9.99878	8.87616	.8 141	1.12384	8.87494	.8 138	1.12506	9.66512													42
9	7.15179	0.00123		9.99877	8.87785	.9 158	1.12215	8.87661	.9 156	1.12339	9.66499													41
20	7.15513	0.00124		9.99876	8.87953	170	1.12047	8.87829	167	1.12171	9.66485													40
1	7.15846	0.00125		9.99875	8.88120	.1 17	1.11880	8.87995	.1 17	1.12005	9.66471													39
2	7.16178	0.00126		9.99874	8.88287	.2 34	1.11713	8.88161	.2 33	1.11839	9.66458													38
3	7.16509	0.00127		9.99873	8.88453	.3 51	1.11547	8.88326	.3 50	1.11674	9.66444													37
4	7.16839	0.00128		9.99872	8.88618	.4 68	1.11382	8.88490	.4 67	1.11510	9.66430													36
5	7.17167	0.00129		9.99871	8.88783	.5 85	1.11217	8.88654	.5 84	1.11346	9.66417													35
6	7.17494	0.00130	1	9.99870	8.88948	.6 102	1.11052	8.88817	.6 100	1.11183	9.66403													34
7	7.17820	0.00131	.1 0	9.99869	8.89111	.7 119	1.10889	8.88980	.7 117	1.11020	9.66389													33
8	7.18144	0.00132	.2 0	9.99868	8.89274	.8 136	1.10726	8.89142	.8 134	1.10858	9.66375													32
9	7.18467	0.00133	.3 0	9.99867	8.89437	.9 153	1.10563	8.89304	.9 150	1.10696	9.66362													31
30	7.18790	0.00134	.4 0	9.99866	8.89598	164	1.10402	8.89464	161	1.10536	9.66348													30
1	7.19111	0.00135	.5 1	9.99865	8.89760	.1 16	1.10240	8.89625	.1 16	1.10375	9.66335													29
2	7.19430	0.00136	.6 1	9.99864	8.89920	.2 33	1.10080	8.89784	.2 32	1.10216	9.66321													28
3	7.19749	0.00137	.7 1	9.99863	8.90080	.3 49	1.09920	8.89943	.3 48	1.10057	9.66307													27
4	7.20066	0.00138	.8 1	9.99862	8.90240	.4 66	1.09760	8.90102	.4 64	1.09898	9.66294													26
5	7.20383	0.00139	.9 1	9.99861	8.90399	.5 82	1.09601	8.90260	.5 81	1.09740	9.66280													25
6	7.20698	0.00140		9.99860	8.90557	.6 98	1.09443	8.90417	.6 97	1.09583	9.66266													24
7	7.21012	0.00141		9.99859	8.90715	.7 115	1.09285	8.90574	.7 113	1.09426	9.66253													23
8	7.21324	0.00142		9.99858	8.90872	.8 131	1.09128	8.90730	.8 129	1.09270	9.66239													22
9	7.21636	0.00143		9.99857	8.91029	.9 148	1.08971	8.90885	.9 146	1.09115	9.66225													21
40	7.21947	0.00144		9.99856	8.91185	158	1.08815	8.91040	155	1.08960	9.66212													20
1	7.22256	0.00145		9.99855	8.91340	.1 16	1.08660	8.91195	.1 16	1.08805	9.66198													19
2	7.22565	0.00146		9.99854	8.91495	.2 32	1.08505	8.91349	.2 31	1.08651	9.66184													18
3	7.22872	0.00147		9.99853	8.91650	.3 47	1.08350	8.91502	.3 47	1.08498	9.66170													17
4	7.23178	0.00148		9.99852	8.91803	.4 63	1.08197	8.91655	.4 62	1.08345	9.66157													16
5	7.23483	0.00149		9.99851	8.91957	.5 79	1.08043	8.91807	.5 78	1.08193	9.66143													15
6	7.23787	0.00150		9.99850	8.92110	.6 95	1.07890	8.91959	.6 93	1.08041	9.66129													14
7	7.24090	0.00152		9.99848	8.92262	.7 111	1.07738	8.92110	.7 109	1.07890	9.66116													13
8	7.24392	0.00153		9.99847	8.92414	.8 128	1.07586	8.92261	.8 124	1.07739	9.66102													12
9	7.24693	0.00154		9.99846	8.92565	.9 142	1.07435	8.92411	.9 140	1.07589	9.66088													11
50	7.24993	0.00155		9.99845	8.92716	152	1.07284	8.92561	149	1.07439	9.66074													10
1	7.25292	0.00156		9.99844	8.92866	.1 15	1.07134	8.92710	.1 15	1.07290	9.66061													9
2	7.25590	0.00157		9.99843	8.93016	.2 30	1.06984	8.92859	.2 30	1.07141	9.66047													8
3	7.25886	0.00158		9.99842	8.93165	.3 46	1.06835	8.93007	.3 45	1.06993	9.66033													7
4	7.26182	0.00159		9.99841	8.93313	.4 61	1.06687	8.93154	.4 60	1.06846	9.66019													6
5	7.26477	0.00160		9.99840	8.93462	.5 76	1.06538	8.93301	.5 75	1.06699	9.66006													5
6	7.26771	0.00161		9.99839	8.93609	.6 91	1.06391	8.93448	.6 89	1.06552	9.65992													4
7	7.27063	0.00162		9.99838	8.93756	.7 106	1.06244	8.93594	.7 104	1.06406	9.65978													3
8	7.27355	0.00163		9.99837	8.93903	.8 122	1.06097	8.93740	.8 119	1.06260	9.65964													2
9	7.27646	0.00164		9.99836	8.94049	.9 137	1.05951	8.93885	.9 134	1.06115	9.65950													1
60	7.27936	0.00166		9.99834	8.94195		1.05805	8.94030		1.05970	9.65937													0
COSEC		PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV														
85°																								

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

5°		5°										14				7								
SEMV		SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	1	2	3	4	5	6	7	8	9	10	11	12	13	
0'	7.27936	0.00166		9.99834	8.94195	146	1.05805	8.94030	144	1.05970	9.65937													60'
1	7.28225	0.00167		9.99833	8.94340	.1 15	1.05660	8.94174	.1 14	1.05826	9.65923													59
2	7.28513	0.00168		9.99832	8.94485	.2 29	1.05515	8.94318	.2 29	1.05683	9.65909													58
3	7.28800	0.00169		9.99831	8.94630	.3 44	1.05370	8.94461	.3 43	1.05539	9.65895													57
4	7.29086	0.00170		9.99830	8.94773	.4 58	1.05227	8.94604	.4 58	1.05397	9.65881													56
5	7.29371	0.00171		9.99829	8.94917	.5 73	1.05083	8.94746	.5 72	1.05254	9.65868													55
6	7.29655	0.00172		9.99828	8.95060	.6 88	1.04940	8.94888	.6 86	1.05113	9.65854													54
7	7.29938	0.00173		9.99827	8.95202	.7 102	1.04798	8.95029	.7 101	1.04971	9.65840													53
8	7.30220	0.00175		9.99825	8.95344	.8 117	1.04656	8.95170	.8 115	1.04830	9.65826													52
9	7.30502	0.00176		9.99824	8.95486	.9 131	1.04514	8.95310	.9 130	1.04690	9.65812													51
10	7.30782	0.00177		9.99823	8.95627	142	1.04373	8.95450	140	1.04550	9.65799													50
1	7.31062	0.00178		9.99822	8.95767	.1 14	1.04233	8.95590	.1 14	1.04411	9.65785													49
2	7.31340	0.00179		9.99821	8.95908	.2 28	1.04092	8.95729	.2 28	1.04272	9.65771													48
3	7.31618	0.00180		9.99820	8.96047	.3 43	1.03953	8.95867	.3 42	1.04133	9.65757													47
4	7.31895	0.00181		9.99819	8.96187	.4 57	1.03813	8.96006	.4 56	1.03995	9.65743													46
5	7.32171	0.00183		9.99817	8.96325	.5 71	1.03675	8.96143	.5 70	1.03857	9.65729													45
6	7.32446	0.00184		9.99816	8.96464	.6 85	1.03536	8.96281	.6 84	1.03720	9.65716													44
7	7.32720	0.00185		9.99815	8.96602	.7 99	1.03398	8.96417	.7 98	1.03583	9.65702													43
8	7.32994	0.00186		9.99814	8.96739	.8 114	1.03261	8.96554	.8 112	1.03447	9.65688													42
9	7.33266	0.00187		9.99813	8.96877	.9 128	1.03123	8.96690	.9 126	1.03311	9.65674													41
20	7.33538	0.00188		9.99812	8.97013	138	1.02987	8.96825	136	1.03175	9.65660													40
1	7.33809	0.00190		9.99810	8.97150	.1 14	1.02850	8.96960	.1 14	1.03040	9.65646													39
2	7.34079	0.00191		9.99809	8.97285	.2 28	1.02715	8.97095	.2 27	1.02905	9.65632													38
3	7.34348	0.00192		9.99808	8.97421	.3 41	1.02579	8.97229	.3 41	1.02771	9.65618													37
4	7.34616	0.00193		9.99807	8.97556	.4 55	1.02444	8.97363	.4 54	1.02637	9.65605													36
5	7.34884	0.00194		9.99806	8.97691	.5 69	1.02309	8.97497	.5 68	1.02504	9.65591													35
6	7.35150	0.00196		9.99804	8.97825	.6 83	1.02175	8.97630	.6 82	1.02371	9.65577													34
7	7.35416	0.00197	1	9.99803	8.97959	.7 97	1.02041	8.97762	.7 95	1.02238	9.65563													33
8	7.35681	0.00198	.10	9.99802	8.98092	.8 110	1.01908	8.97895	.8 109	1.02106	9.65549													32
9	7.35945	0.00199	.20	9.99801	8.98225	.9 124	1.01775	8.98026	.9 122	1.01974	9.65535													31
30	7.36209	0.00200	.30	9.99800	8.98358	134	1.01642	8.98158	132	1.01843	9.65521													30
1	7.36471	0.00202	.40	9.99798	8.98490	.1 13	1.01510	8.98289	.1 13	1.01712	9.65507													29
2	7.36733	0.00203	.51	9.99797	8.98622	.2 27	1.01378	8.98419	.2 26	1.01581	9.65493													28
3	7.36994	0.00204	.61	9.99796	8.98753	.3 40	1.01247	8.98550	.3 40	1.01451	9.65479													27
4	7.37254	0.00205	.71	9.99795	8.98884	.4 54	1.01115	8.98679	.4 53	1.01321	9.65466													26
5	7.37514	0.00207	.81	9.99793	8.99015	.5 67	1.00985	8.98809	.5 66	1.01192	9.65452													25
6	7.37772	0.00208	.91	9.99792	8.99145	.6 80	1.00855	8.98938	.6 79	1.01063	9.65438													24
7	7.38030	0.00209		9.99791	8.99275	.7 94	1.00725	8.99066	.7 92	1.00934	9.65424													23
8	7.38288	0.00210		9.99790	8.99405	.8 108	1.00595	8.99195	.8 106	1.00806	9.65410													22
9	7.38544	0.00212		9.99789	8.99534	.9 121	1.00466	8.99323	.9 119	1.00678	9.65396													21
40	7.38800	0.00213		9.99787	8.99662	130	1.00338	8.99450	128	1.00550	9.65382													20
1	7.39054	0.00214		9.99786	8.99791	.1 13	1.00209	8.99577	.1 13	1.00423	9.65368													19
2	7.39309	0.00215		9.99785	8.99919	.2 26	1.00081	8.99704	.2 26	1.00296	9.65354													18
3	7.39562	0.00217		9.99783	9.00046	.3 39	0.99954	8.99830	.3 38	1.00170	9.65340													17
4	7.39815	0.00218		9.99782	9.00174	.4 52	0.99826	8.99956	.4 51	1.00044	9.65326													16
5	7.40067	0.00219		9.99781	9.00301	.5 65	0.99699	9.00082	.5 64	0.99918	9.65312													15
6	7.40318	0.00220		9.99780	9.00427	.6 78	0.99573	9.00207	.6 77	0.99793	9.65298													14
7	7.40568	0.00222		9.99778	9.00553	.7 91	0.99447	9.00332	.7 90	0.99668	9.65284													13
8	7.40818	0.00223		9.99777	9.00679	.8 104	0.99321	9.00457	.8 102	0.99544	9.65270													12
9	7.41067	0.00224		9.99776	9.00805	.9 117	0.99195	9.00581	.9 116	0.99419	9.65256													11
50	7.41315	0.00225		9.99775	9.00930	126	0.99070	9.00705	124	0.99296	9.65242													10
1	7.41563	0.00227		9.99773	9.01055	.1 13	0.98945	9.00828	.1 12	0.99172	9.65228													9
2	7.41810	0.00228		9.99772	9.01179	.2 25	0.98821	9.00951	.2 25	0.99049	9.65214													8
3	7.42056	0.00229		9.99771	9.01303	.3 38	0.98697	9.01074	.3 37	0.98926	9.65200													7
4	7.42301	0.00231		9.99769	9.01427	.4 50	0.98573	9.01197	.4 50	0.98804	9.65186													6
5	7.42546	0.00232		9.99768	9.01550	.5 63	0.98450	9.01319	.5 62	0.98682	9.65172													5
6	7.42790	0.00233		9.99767	9.01673	.6 76	0.98327	9.01440	.6 74	0.98560	9.65158													4
7	7.43034	0.00235		9.99765	9.01796	.7 88	0.98204	9.01562	.7 87	0.98439	9.65144													3
8	7.43277	0.00236		9.99764	9.01918	.8 101	0.98082	9.01683	.8 99	0.98318	9.65130													2
9	7.43519	0.00237		9.99763	9.02040	.9 113	0.97960	9.01803	.9 112	0.98197	9.65116													1
60	7.43760	0.00239		9.99761	9.02162		0.97838	9.01924		0.98077	9.65102													0
COSEC		PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV														
84°																								

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

— 170 —

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

7°											15					5		8	
7°											.1	2	.5	8	.9	.6	9	.11	12
7°											.2	3	.7	11	.3	5	.8	12	14
7°											.3	4	.8	12	.4	6	.9	14	
7°																			
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC									
0'	7.57136	0.00325		9.99675	9.08914	104	0.91086	9.08589	101	0.91411	9.64253								
1	7.57341	0.00326		9.99674	9.09019	110	0.90981	9.08692	110	0.91308	9.64239								
2	7.57547	0.00328		9.99672	9.09123	221	0.90877	9.08795	220	0.91205	9.64224								
3	7.57752	0.00330		9.99670	9.09227	331	0.90773	9.08897	330	0.91103	9.64210								
4	7.57957	0.00331		9.99669	9.09330	442	0.90670	9.08999	440	0.91001	9.64196								
5	7.58162	0.00333		9.99667	9.09434	552	0.90566	9.09101	551	0.90899	9.64181								
6	7.58366	0.00334		9.99666	9.09537	662	0.90463	9.09202	661	0.90798	9.64167								
7	7.58569	0.00336		9.99664	9.09640	773	0.90360	9.09304	771	0.90696	9.64153								
8	7.58772	0.00337		9.99663	9.09742	883	0.90258	9.09405	881	0.90595	9.64139								
9	7.58974	0.00339		9.99661	9.09845	994	0.90155	9.09506	991	0.90494	9.64124								
10	7.59176	0.00341		9.99659	9.09947	102	0.90053	9.09606	99	0.90394	9.64110								
1	7.59378	0.00342		9.99658	9.10049	110	0.89951	9.09706	110	0.90294	9.64096								
2	7.59579	0.00344		9.99656	9.10150	220	0.89850	9.09807	220	0.90193	9.64081								
3	7.59779	0.00345		9.99655	9.10252	331	0.89748	9.09907	330	0.90093	9.64067								
4	7.59979	0.00347		9.99653	9.10353	441	0.89647	9.10006	440	0.89994	9.64053								
5	7.60179	0.00349		9.99651	9.10454	551	0.89546	9.10106	550	0.89894	9.64038								
6	7.60378	0.00350		9.99650	9.10555	661	0.89445	9.10205	659	0.89795	9.64024								
7	7.60577	0.00352		9.99648	9.10656	771	0.89344	9.10304	769	0.89696	9.64010								
8	7.60775	0.00353		9.99647	9.10756	882	0.89244	9.10402	879	0.89598	9.63995								
9	7.60973	0.00355		9.99645	9.10856	992	0.89144	9.10501	989	0.89499	9.63981								
20	7.61170	0.00357		9.99643	9.10956	100	0.89044	9.10599	97	0.89401	9.63966								
1	7.61367	0.00358		9.99642	9.11056	110	0.88944	9.10697	110	0.89303	9.63952								
2	7.61564	0.00360		9.99640	9.11155	220	0.88845	9.10795	219	0.89205	9.63938								
3	7.61760	0.00362		9.99638	9.11254	330	0.88746	9.10893	329	0.89107	9.63923								
4	7.61955	0.00363		9.99637	9.11353	440	0.88647	9.10990	439	0.89010	9.63909								
5	7.62151	0.00365		9.99635	9.11452	550	0.88548	9.11087	549	0.88913	9.63895								
6	7.62345	0.00367		9.99633	9.11551	660	0.88449	9.11184	658	0.88816	9.63880								
7	7.62540	0.00368		9.99632	9.11649	770	0.88351	9.11281	768	0.88719	9.63866								
8	7.62733	0.00370		9.99630	9.11747	880	0.88253	9.11377	878	0.88623	9.63851								
9	7.62927	0.00371		9.99629	9.11845	990	0.88155	9.11474	987	0.88526	9.63837								
30	7.63120	0.00373		9.99627	9.11943	98	0.88057	9.11570	95	0.88430	9.63823								
1	7.63312	0.00375		9.99625	9.12040	110	0.87960	9.11666	110	0.88334	9.63808								
2	7.63504	0.00376		9.99624	9.12138	220	0.87862	9.11761	219	0.88239	9.63794								
3	7.63696	0.00378		9.99622	9.12235	329	0.87765	9.11857	329	0.88143	9.63779								
4	7.63887	0.00380		9.99620	9.12332	439	0.87668	9.11952	438	0.88048	9.63765								
5	7.64078	0.00382		9.99618	9.12428	549	0.87572	9.12047	548	0.87953	9.63751								
6	7.64268	0.00383		9.99617	9.12525	659	0.87475	9.12142	657	0.87858	9.63736								
7	7.64458	0.00385		9.99615	9.12621	769	0.87379	9.12236	767	0.87764	9.63722								
8	7.64648	0.00387		9.99613	9.12717	878	0.87283	9.12331	876	0.87669	9.63707								
9	7.64837	0.00388		9.99612	9.12813	988	0.87187	9.12425	986	0.87575	9.63693								
40	7.65026	0.00390		9.99610	9.12909	96	0.87091	9.12519	93	0.87481	9.63678								
1	7.65214	0.00392		9.99608	9.13004	110	0.86996	9.12612	110	0.87388	9.63664								
2	7.65402	0.00393		9.99607	9.13099	219	0.86901	9.12706	219	0.87294	9.63649								
3	7.65590	0.00395		9.99605	9.13194	329	0.86806	9.12799	328	0.87201	9.63635								
4	7.65777	0.00397		9.99603	9.13289	438	0.86711	9.12892	437	0.87108	9.63621								
5	7.65964	0.00399		9.99601	9.13384	548	0.86616	9.12985	547	0.87015	9.63606								
6	7.66150	0.00400		9.99600	9.13478	658	0.86522	9.13078	656	0.86922	9.63592								
7	7.66336	0.00402		9.99598	9.13573	767	0.86427	9.13171	765	0.86829	9.63577								
8	7.66521	0.00404		9.99596	9.13667	877	0.86333	9.13263	874	0.86737	9.63563								
9	7.66706	0.00405		9.99595	9.13761	986	0.86239	9.13355	984	0.86645	9.63548								
50	7.66891	0.00407		9.99593	9.13854	94	0.86146	9.13447	91	0.86553	9.63534								
1	7.67075	0.00409		9.99591	9.13948	110	0.86052	9.13539	110	0.86461	9.63519								
2	7.67259	0.00411		9.99589	9.14041	219	0.85959	9.13630	218	0.86370	9.63505								
3	7.67443	0.00412		9.99588	9.14134	328	0.85866	9.13722	327	0.86278	9.63490								
4	7.67626	0.00414		9.99586	9.14227	438	0.85773	9.13813	436	0.86187	9.63476								
5	7.67809	0.00416		9.99584	9.14320	547	0.85680	9.13904	546	0.86096	9.63461								
6	7.67991	0.00418		9.99582	9.14412	656	0.85588	9.13994	655	0.86006	9.63447								
7	7.68173	0.00419		9.99581	9.14504														

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

8°	8°										15				8°					
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4		.5	.6	.7	.8	.9
0'	7.68717	0.00425		9.99575	9.14780		0.85220	9.14356		0.85644	9.63389									60'
1	7.68897	0.00426		9.99574	9.14872		0.85128	9.14445		0.85555	9.63374									59
2	7.69077	0.00428		9.99572	9.14963		0.85037	9.14535		0.85465	9.63359									58
3	7.69257	0.00430		9.99570	9.15054		0.84946	9.14624		0.85376	9.63345									57
4	7.69437	0.00432		9.99568	9.15145		0.84855	9.14714		0.85286	9.63330									56
5	7.69616	0.00434		9.99566	9.15236		0.84764	9.14803		0.85197	9.63316									55
6	7.69794	0.00435		9.99565	9.15327	92	0.84673	9.14891	89	0.85109	9.63301									54
7	7.69972	0.00437		9.99563	9.15417	.1 9	0.84583	9.14980	.1 9	0.85020	9.63287									53
8	7.70150	0.00439		9.99561	9.15508	.2 18	0.84492	9.15069	.2 18	0.84931	9.63272									52
9	7.70328	0.00441		9.99559	9.15598	.3 28	0.04402	9.15157	.3 27	0.84843	9.63258									51
						.4 37			.4 36											
						.5 46			.5 45											
10	7.70505	0.00443		9.99557	9.15688	.6 55	0.84312	9.15245	.6 53	0.84755	9.63243									50
1	7.70682	0.00444		9.99556	9.15777	.7 64	0.84223	9.15333	.7 62	0.84667	9.63228									49
2	7.70858	0.00446		9.99554	9.15867	.8 74	0.84133	9.15421	.8 71	0.84579	9.63214									48
3	7.71034	0.00448		9.99552	9.15956	.9 83	0.84044	9.15508	.9 80	0.84492	9.63199									47
4	7.71210	0.00450		9.99550	9.16046		0.83954	9.15596		0.84404	9.63185									46
5	7.71385	0.00452		9.99548	9.16135		0.83865	9.15683		0.84317	9.63170									45
6	7.71560	0.00454		9.99546	9.16224	90	0.83776	9.15770	87	0.84230	9.63155									44
7	7.71735	0.00455		9.99545	9.16312	.1 9	0.83688	9.15857	.1 9	0.84143	9.63141									43
8	7.71909	0.00457		9.99543	9.16401	.2 18	0.83599	9.15944	.2 17	0.84056	9.63126									42
9	7.72083	0.00459		9.99541	9.16489	.3 27	0.83511	9.16030	.3 26	0.83970	9.63112									41
						.4 36			.4 35											
						.5 45			.5 44											
20	7.72257	0.00461		9.99539	9.16577	.6 54	0.83423	9.16116	.6 52	0.83884	9.63097									40
1	7.72430	0.00463		9.99537	9.16665	.7 63	0.83335	9.16203	.7 61	0.83797	9.63082									39
2	7.72603	0.00465		9.99535	9.16753	.8 72	0.83247	9.16289	.8 70	0.83711	9.63068									38
3	7.72775	0.00467		9.99533	9.16841	.9 81	0.83159	9.16374	.9 78	0.83626	9.63053									37
4	7.72948	0.00468		9.99532	9.16928		0.83072	9.16460		0.83540	9.63039									36
5	7.73119	0.00470		9.99530	9.17016		0.82984	9.16545		0.83455	9.63024									35
6	7.73291	0.00472		9.99528	9.17103		0.82897	9.16631		0.83369	9.63009									34
7	7.73462	0.00474	2	9.99526	9.17190	88	0.82810	9.16716	85	0.83284	9.62995									33
8	7.73633	0.00476	.1 0	9.99524	9.17277	.1 9	0.82723	9.16801	.1 9	0.83199	9.62980									32
9	7.73803	0.00478	.2 0	9.99522	9.17363	.2 18	0.82637	9.16886	.2 17	0.83114	9.62965									31
			.3 1			.3 26			.3 25											
			.4 1			.4 35			.4 34											
30	7.73974	0.00480	.5 1	9.99520	9.17450	.5 44	0.82550	9.16970	.5 43	0.83030	9.62951									30
1	7.74143	0.00482	.6 1	9.99518	9.17536	.6 53	0.82464	9.17055	.6 51	0.82945	9.62936									29
2	7.74313	0.00483	.7 1	9.99517	9.17622	.7 62	0.82378	9.17139	.7 60	0.82861	9.62921									28
3	7.74482	0.00485	.8 2	9.99515	9.17708	.8 70	0.82292	9.17223	.8 68	0.82777	9.62907									27
4	7.74651	0.00487	.9 2	9.99513	9.17794	.9 79	0.82206	9.17307	.9 77	0.82693	9.62892									26
5	7.74819	0.00489		9.99511	9.17880		0.82120	9.17391		0.82609	9.62877									25
6	7.74988	0.00491		9.99509	9.17965		0.82034	9.17474		0.82526	9.62863									24
7	7.75155	0.00493		9.99507	9.18051		0.81949	9.17558		0.82442	9.62848									23
8	7.75323	0.00495		9.99505	9.18136	86	0.81864	9.17641	83	0.82359	9.62833									22
9	7.75490	0.00497		9.99503	9.18221	.1 8	0.81779	9.17724	.1 8	0.82276	9.62819									21
			.2 17			.2 26			.2 25											
			.3 26			.3 35			.3 34											
40	7.75657	0.00499	.4 1	9.99501	9.18306	.4 44	0.81694	9.17807	.4 43	0.82193	9.62804									20
1	7.75824	0.00501	.5 1	9.99499	9.18391	.5 53	0.81609	9.17890	.5 51	0.82110	9.62789									19
2	7.75990	0.00503	.6 1	9.99497	9.18475	.6 62	0.81525	9.17973	.6 60	0.82027	9.62774									18
3	7.76156	0.00505	.7 1	9.99495	9.18560	.7 70	0.81440	9.18055	.7 68	0.81945	9.62760									17
4	7.76321	0.00506	.8 2	9.99494	9.18644	.8 79	0.81356	9.18137	.8 77	0.81863	9.62745									16
5	7.76487	0.00508	.9 2	9.99492	9.18728	.9 88	0.81272	9.18220	.9 86	0.81780	9.62730									15
6	7.76652	0.00510		9.99490	9.18812		0.81188	9.18302		0.81698	9.62716									14
7	7.76816	0.00512		9.99488	9.18896		0.81104	9.18383		0.81617	9.62701									13
8	7.76981	0.00514		9.99486	9.18979		0.81021	9.18465		0.81535	9.62686									12
9	7.77145	0.00516		9.99484	9.19063	84	0.80937	9.18547	81	0.81453	9.62671									11
			.1 8			.2 17			.1 16											
			.2 17			.3 26			.3 24											
50	7.77308	0.00518	.3 26	9.99482	9.19146	.4 34	0.80854	9.18628	.4 32	0.81372	9.62657									10
1	7.77472	0.00520	.4 34	9.99480	9.19229	.5 42	0.80771	9.18709	.5 41	0.81291	9.62642									9
2	7.77635	0.00522	.5 53	9.99478	9.19312	.6 50	0.80688	9.18790	.6 49	0.81210	9.62627									8
3	7.77798	0.00524	.6 62	9.99476	9.19395	.7 59	0.80605	9.18871	.7 57	0.81129	9.62612									7
4	7.77960	0.00526	.7 70	9.99474	9.19478	.8 67	0.80522	9.18952	.8 66	0.81048	9.62598									6
5	7.78122	0.00528	.8 79	9.99472	9.19561	.9 76	0.80439	9.19033	.9 75	0.80967	9.62583									5
6	7.78284	0.00530		9.99470	9.19643		0.80357	9.19113		0.80887	9.62568									4
7	7.78446	0.00532		9.99468	9.19725		0.80275	9.19193		0.80807	9.62553									3
8	7.78607	0.00534		9.99466	9.19807		0.80193	9.19273		0.80727	9.62538									2
9	7.78768	0.00536		9.99464	9.19889		0.80111	9.19353		0.80647	9.62524									1
60	7.78929	0.00538		9.99462	9.19971		0.80029	9.19433		0.80567	9.62509									0
81°										81°										
COSEC										SEMV										

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

— 173 —

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

10°	10°										16							
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4	.5	.6	.7	.8
0'	7.88059	0.00665		9.99335	9.24632	73	0.75368	9.23967	71	0.76033	9.61613	80'						
1	7.88203	0.00667		9.99333	9.24706	.1 7	0.75294	9.24039	.1 7	0.75961	9.61598	59						
2	7.88347	0.00669		9.99331	9.24779	.2 15	0.75221	9.24110	.2 14	0.75890	9.61583	58						
3	7.88491	0.00672		9.99328	9.24853	.3 22	0.75147	9.24181	.3 21	0.75819	9.61568	57						
4	7.88635	0.00674		9.99326	9.24926	.4 29	0.75074	9.24253	.4 28	0.75747	9.61553	56						
5	7.88778	0.00676		9.99324	9.25000	.5 37	0.75000	9.24324	.5 36	0.75676	9.61538	55						
6	7.88921	0.00678		9.99322	9.25073	.6 44	0.74927	9.24395	.6 43	0.75605	9.61523	54						
7	7.89064	0.00681		9.99319	9.25146	.7 51	0.74854	9.24466	.7 50	0.75534	9.61508	53						
8	7.89207	0.00683		9.99317	9.25219	.8 58	0.74781	9.24536	.8 57	0.75464	9.61493	52						
9	7.89349	0.00685		9.99315	9.25292	.9 66	0.74708	9.24607	.9 64	0.75393	9.61478	51						
10	7.89491	0.00687		9.99313	9.25365	72	0.74635	9.24677	70	0.75323	9.61463	50						
1	7.89633	0.00690		9.99310	9.25437	.1 7	0.74563	9.24748	.1 7	0.75252	9.61448	49						
2	7.89775	0.00692		9.99308	9.25510	.2 14	0.74490	9.24818	.2 14	0.75182	9.61432	48						
3	7.89916	0.00694		9.99306	9.25582	.3 22	0.74418	9.24888	.3 21	0.75112	9.61417	47						
4	7.90057	0.00696		9.99304	9.25655	.4 29	0.74345	9.24958	.4 28	0.75042	9.61402	46						
5	7.90198	0.00699		9.99301	9.25727	.5 38	0.74273	9.25028	.5 35	0.74972	9.61387	45						
6	7.90339	0.00701		9.99299	9.25799	.6 43	0.74201	9.25098	.6 42	0.74902	9.61372	44						
7	7.90480	0.00703		9.99297	9.25871	.7 50	0.74129	9.25168	.7 49	0.74832	9.61357	43						
8	7.90620	0.00706		9.99294	9.25943	.8 58	0.74057	9.25237	.8 56	0.74763	9.61342	42						
9	7.90760	0.00708		9.99292	9.26015	.9 65	0.73985	9.25307	.9 63	0.74693	9.61327	41						
20	7.90900	0.00710		9.99290	9.26086	71	0.73914	9.25376	69	0.74624	9.61311	40						
1	7.91039	0.00712		9.99288	9.26158	.1 7	0.73842	9.25445	.1 7	0.74555	9.61296	39						
2	7.91179	0.00715		9.99285	9.26229	.2 14	0.73771	9.25514	.2 14	0.74486	9.61281	38						
3	7.91318	0.00717		9.99283	9.26301	.3 21	0.73699	9.25583	.3 21	0.74417	9.61266	37						
4	7.91457	0.00719		9.99281	9.26372	.4 28	0.73628	9.25652	.4 28	0.74348	9.61251	36						
5	7.91596	0.00722		9.99278	9.26443	.5 36	0.73557	9.25721	.5 35	0.74279	9.61236	35						
6	7.91734	0.00724		9.99276	9.26514	.6 43	0.73486	9.25790	.6 41	0.74210	9.61221	34						
7	7.91872	0.00726	2	9.99274	9.26585	.7 50	0.73415	9.25858	.7 48	0.74142	9.61205	33						
8	7.92010	0.00729	.1 0	9.99271	9.26655	.8 57	0.73345	9.25927	.8 55	0.74073	9.61190	32						
9	7.92148	0.00731	.2 0	9.99269	9.26726	.9 64	0.73274	9.25995	.9 62	0.74005	9.61175	31						
30	7.92286	0.00733	.3 1	9.99267	9.26797	70	0.73203	9.26063	68	0.73937	9.61160	30						
1	7.92423	0.00736	.4 1	9.99264	9.26867	.1 7	0.73133	9.26131	.1 7	0.73869	9.61145	29						
2	7.92560	0.00738	.5 1	9.99262	9.26937	.2 14	0.73063	9.26199	.2 14	0.73801	9.61129	28						
3	7.92697	0.00740	.6 1	9.99260	9.27008	.3 21	0.72992	9.26267	.3 20	0.73733	9.61114	27						
4	7.92834	0.00743	.7 1	9.99257	9.27078	.4 28	0.72922	9.26335	.4 27	0.73665	9.61099	26						
5	7.92970	0.00745	.8 2	9.99255	9.27148	.5 35	0.72852	9.26403	.5 34	0.73597	9.61084	25						
6	7.93107	0.00748	.9 2	9.99253	9.27218	.6 42	0.72782	9.26470	.6 41	0.73530	9.61069	24						
7	7.93243	0.00750		9.99250	9.27288	.7 49	0.72712	9.26538	.7 48	0.73462	9.61053	23						
8	7.93379	0.00752		9.99248	9.27357	.8 56	0.72643	9.26605	.8 54	0.73395	9.61038	22						
9	7.93514	0.00755		9.99245	9.27427	.9 63	0.72573	9.26672	.9 61	0.73328	9.61023	21						
40	7.93650	0.00757		9.99243	9.27496	69	0.72504	9.26739	67	0.73261	9.61008	20						
1	7.93785	0.00759		9.99241	9.27566	.1 7	0.72434	9.26806	.1 7	0.73194	9.60992	19						
2	7.93920	0.00762		9.99238	9.27635	.2 14	0.72365	9.26873	.2 13	0.73127	9.60977	18						
3	7.94055	0.00764		9.99236	9.27704	.3 21	0.72296	9.26940	.3 20	0.73060	9.60962	17						
4	7.94189	0.00767		9.99233	9.27773	.4 28	0.72227	9.27007	.4 27	0.72993	9.60947	16						
5	7.94324	0.00769		9.99231	9.27842	.5 35	0.72158	9.27073	.5 34	0.72927	9.60931	15						
6	7.94458	0.00771		9.99229	9.27911	.6 41	0.72089	9.27140	.6 40	0.72860	9.60916	14						
7	7.94592	0.00774		9.99226	9.27980	.7 48	0.72020	9.27206	.7 47	0.72794	9.60901	13						
8	7.94726	0.00776		9.99224	9.28049	.8 55	0.71951	9.27273	.8 54	0.72727	9.60886	12						
9	7.94859	0.00779		9.99221	9.28117	.9 62	0.71883	9.27339	.9 60	0.72661	9.60870	11						
50	7.94992	0.00781		9.99219	9.28186	68	0.71814	9.27405	66	0.72595	9.60855	10						
1	7.95126	0.00783		9.99217	9.28254	.1 7	0.71746	9.27471	.1 7	0.72529	9.60840	9						
2	7.95258	0.00786		9.99214	9.28323	.2 14	0.71677	9.27537	.2 13	0.72463	9.60825	8						
3	7.95391	0.00788		9.99212	9.28391	.3 20	0.71609	9.27602	.3 20	0.72398	9.60809	7						
4	7.95524	0.00791		9.99209	9.28459	.4 27	0.71541	9.27668	.4 26	0.72332	9.60794	6						
5	7.95656	0.00793		9.99207	9.28527	.5 34	0.71473	9.27734	.5 33	0.72266	9.60779	5						
6	7.95788	0.00796		9.99204	9.28595	.6 41	0.71405	9.27799	.6 40	0.72201	9.60763	4						
7	7.95920	0.00798		9.99202	9.28662	.7 48	0.71338	9.27864	.7 48	0.72136	9.60748	3						
8	7.96052	0.00800		9.99200	9.28730	.8 54	0.71270	9.27930	.8 53	0.72070	9.60733	2						
9	7.96183	0.00803		9.99197	9.28798	.9 61	0.71202	9.27995	.9 59	0.72005	9.60717	1						
60	7.96315	0.00805		9.99195	9.28865		0.71135	9.28060		0.71940	9.60702	0						
											79°							
											79°							

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

— 175 —

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

12°						12°							16							
SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC											
0'	8.03847	0.00960	9.99040	9.32747		0.67253	9.31788		0.68212	9.59774	60'									
1	8.03967	0.00962	9.99038	9.32810		0.67190	9.31847		0.68153	9.59759	59									
2	8.04087	0.00965	9.99035	9.32872		0.67128	9.31907		0.68093	9.59743	58									
3	8.04207	0.00968	9.99032	9.32943		0.67067	9.31966		0.68034	9.59728	57									
4	8.04326	0.00970	9.99030	9.32995		0.67005	9.32025		0.67975	9.59712	56									
5	8.04446	0.00973	9.99027	9.33057		0.66943	9.32084		0.67916	9.59696	55									
6	8.04565	0.00976	9.99024	9.33119	62	0.66881	9.32143	59	0.67857	9.59681	54									
7	8.04684	0.00978	9.99022	9.33180	.1 8	0.66820	9.32202	.1 6	0.67798	9.59665	53									
8	8.04803	0.00981	9.99019	9.33242	.2 12	0.66758	9.32261	.2 12	0.67739	9.59649	52									
9	8.04922	0.00984	9.99016	9.33303	.3 19	0.66697	9.32319	.3 18	0.67681	9.59634	51									
					.4 25			.4 24												
					.5 31			.5 30												
10	8.05041	0.00987	9.99013	9.33365	.6 37	0.66635	9.32378	.6 35	0.67622	9.59618	50									
1	8.05159	0.00989	9.99011	9.33426	.7 43	0.66574	9.32437	.7 41	0.67563	9.59602	49									
2	8.05277	0.00992	9.99008	9.33487	.8 50	0.66513	9.32495	.8 47	0.67505	9.59587	48									
3	8.05395	0.00995	9.99005	9.33548	.9 56	0.66452	9.32553	.9 53	0.67447	9.59571	47									
4	8.05513	0.00998	9.99002	9.33609		0.66391	9.32612		0.67388	9.59555	46									
5	8.05631	0.01000	9.99000	9.33670		0.66330	9.32670		0.67330	9.59540	45									
6	8.05749	0.01003	9.98997	9.33731		0.66269	9.32728		0.67272	9.59524	44									
7	8.05866	0.01006	9.98994	9.33792	61	0.66208	9.32786	58	0.67214	9.59508	43									
8	8.05984	0.01009	9.98991	9.33853	.1 6	0.66147	9.32844	.1 6	0.67156	9.59493	42									
9	8.06101	0.01011	9.98989	9.33913	.2 12	0.66087	9.32902	.2 12	0.67098	9.59477	41									
					.3 18			.3 17												
					.4 24			.4 23												
					.5 31	0.66026	9.32960	.5 29	0.67040	9.59461	40									
1	8.06335	0.01017	9.98983	9.34034	.6 37	0.65966	9.33018	.6 35	0.66982	9.59446	39									
2	8.06451	0.01020	9.98980	9.34095	.7 43	0.65905	9.33075	.7 41	0.66925	9.59430	38									
3	8.06568	0.01022	9.98978	9.34155	.8 49	0.65845	9.33133	.8 46	0.66867	9.59414	37									
4	8.06684	0.01025	9.98975	9.34215	.9 55	0.65785	9.33190	.9 52	0.66810	9.59399	36									
5	8.06800	0.01028	9.98972	9.34276		0.65724	9.33248		0.66752	9.59383	35									
6	8.06916	0.01031	9.98969	9.34336		0.65664	9.33305		0.66695	9.59367	34									
7	8.07032	0.01033	9.98967	9.34396	60	0.65604	9.33362	57	0.66638	9.59351	33									
8	8.07148	0.01036	9.98964	9.34456	.1 6	0.65544	9.33420	.1 6	0.66580	9.59336	32									
9	8.07264	0.01039	9.98961	9.34516	.2 12	0.65484	9.33477	.2 11	0.66523	9.59320	31									
					.3 18			.3 17												
					.4 24	0.65424	9.33534	.4 23	0.66466	9.59304	30									
1	8.07379	0.01042	9.98958	9.34576	.5 30	0.65365	9.33591	.5 29	0.66409	9.59288	29									
2	8.07494	0.01045	9.98955	9.34635	.6 36	0.65305	9.33647	.6 34	0.66353	9.59273	28									
3	8.07610	0.01047	9.98953	9.34695	.7 42	0.65245	9.33704	.7 40	0.66296	9.59257	27									
4	8.07724	0.01050	9.98950	9.34755	.8 48	0.65186	9.33761	.8 46	0.66239	9.59241	26									
5	8.07839	0.01053	9.98947	9.34814	.9 54	0.65126	9.33818	.9 51	0.66182	9.59225	25									
6	8.07954	0.01056	9.98944	9.34874		0.65067	9.33874		0.66126	9.59210	24									
7	8.08068	0.01059	9.98941	9.34933		0.65008	9.33931		0.66069	9.59194	23									
8	8.08183	0.01062	9.98938	9.34992	59	0.64949	9.33987	56	0.66013	9.59178	22									
9	8.08297	0.01064	9.98936	9.35051	.1 6	0.64889	9.34043	.1 6	0.65957	9.59162	21									
	8.08411	0.01067	9.98933	9.35111	.2 12			.2 11												
					.3 18	0.64830	9.34100	.3 17	0.65900	9.59147	20									
40	8.08525	0.01070	9.98930	9.35170	.4 24	0.64771	9.34156	.4 22	0.65844	9.59131	19									
1	8.08639	0.01073	9.98927	9.35229	.5 30	0.64712	9.34212	.5 28	0.65788	9.59115	18									
2	8.08752	0.01076	9.98924	9.35288	.6 35	0.64654	9.34268	.6 34	0.65732	9.59099	17									
3	8.08866	0.01079	9.98921	9.35346	.7 41	0.64595	9.34324	.7 39	0.65676	9.59083	16									
4	8.08979	0.01081	9.98919	9.35405	.8 47	0.64536	9.34380	.8 45	0.65620	9.59068	15									
5	8.09092	0.01084	9.98916	9.35464	.9 53	0.64477	9.34436	.9 50	0.65564	9.59052	14									
6	8.09205	0.01087	9.98913	9.35523		0.64419	9.34491		0.65509	9.59036	13									
7	8.09318	0.01090	9.98910	9.35581		0.64360	9.34547		0.65453	9.59020	12									
8	8.09431	0.01093	9.98907	9.35640	58	0.64302	9.34602	55	0.65398	9.59004	11									
9	8.09543	0.01096	9.98904	9.35698	.1 6			.1 6												
					.2 12	0.64243	9.34658	.2 11	0.65342	9.58988	10									
					.3 17	0.64185	9.34713	.3 17	0.65287	9.58973	9									
					.4 23	0.64127	9.34769	.4 22	0.65231	9.58957	8									
50	8.09656	0.01099	9.98901	9.35757	.5 29	0.64069	9.34824	.5 28	0.65176	9.58941	7									
1	8.09768	0.01102	9.98898	9.35815	.6 35	0.64011	9.34879	.6 33	0.65121	9.58925	6									
2	8.09880	0.01104	9.98896	9.35873	.7 41	0.63953	9.34934	.7 39	0.65066	9.58909	5									
3	8.09992	0.01107	9.98893	9.35931	.8 46	0.63895	9.34989	.8 44	0.65011	9.58893	4									
4	8.10104	0.01110	9.98890	9.35989	.9 52	0.63837	9.35044	.9 50	0.64956	9.58878	3									
5	8.10216	0.01113	9.98887	9.36047		0.63779	9.35099		0.64901	9.58862	2									
6	8.10327	0.01116	9.98884	9.36105		0.63721	9.35154		0.64846	9.58846	1									
7	8.10438	0.01119	9.98881	9.36163																
8	8.10550	0.01122	9.98878	9.36221																
9	8.10661	0.01125	9.98875	9.36279																
60	8.10772	0.01128	9.98872	9.36336		0.63664	9.35209		0.64791	9.58830	0									
COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV		77°									

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

13°	13°										16		
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3
0'	8.10772	0.01128		9.98872	9.36336		0.63664	9.35209		0.64791	9.58830		
1	8.10883	0.01131		9.98869	9.36394		0.63606	9.35263		0.64737	9.58814		
2	8.10993	0.01133		9.98867	9.36452		0.63548	9.35318		0.64682	9.58798		
3	8.11104	0.01137		9.98864	9.36509		0.63491	9.35373		0.64627	9.58782		
4	8.11214	0.01140		9.98861	9.36566		0.63434	9.35427		0.64573	9.58766		
5	8.11324	0.01142		9.98858	9.36624		0.63376	9.35481		0.64519	9.58750		
6	8.11434	0.01145		9.98855	9.36681	58	0.63319	9.35536	55	0.64464	9.58735		
7	8.11544	0.01148		9.98852	9.36738	.1 6	0.63262	9.35590	.1 6	0.64410	9.58719		
8	8.11654	0.01151		9.98849	9.36795	.2 12	0.63205	9.35644	.2 11	0.64356	9.58703		
9	8.11764	0.01154		9.98846	9.36852	.3 17	0.63148	9.35698	.3 17	0.64302	9.58687		
						.4 23			.4 22				
10	8.11873	0.01157		9.98843	9.36909	.5 29	0.63091	9.35752	.5 28	0.64248	9.58671		
1	8.11983	0.01160		9.98840	9.36966	.6 35	0.63034	9.35806	.6 33	0.64194	9.58655		
2	8.12092	0.01163		9.98837	9.37023	.7 41	0.62977	9.35860	.7 39	0.64140	9.58639		
3	8.12201	0.01166		9.98834	9.37080	.8 46	0.62920	9.35914	.8 44	0.64086	9.58623		
4	8.12310	0.01169		9.98831	9.37137	.9 52	0.62863	9.35968	.9 50	0.64032	9.58607		
5	8.12419	0.01172		9.98828	9.37193		0.62807	9.36022		0.63978	9.58591		
6	8.12528	0.01175		9.98825	9.37250	57	0.62750	9.36075	54	0.63925	9.58575		
7	8.12636	0.01178		9.98822	9.37306	.1 6	0.62694	9.36129	.1 5	0.63871	9.58559		
8	8.12745	0.01181		9.98819	9.37363	.2 11	0.62637	9.36182	.2 11	0.63818	9.58543		
9	8.12853	0.01184		9.98816	9.37419	.3 17	0.62581	9.36236	.3 16	0.63764	9.58527		
						.4 23			.4 22				
20	8.12961	0.01187		9.98813	9.37476	.5 29	0.62524	9.36289	.5 27	0.63711	9.58511		
1	8.13069	0.01190		9.98810	9.37532	.6 34	0.62468	9.36342	.6 32	0.63658	9.58495		
2	8.13177	0.01193		9.98807	9.37588	.7 40	0.62412	9.36395	.7 38	0.63605	9.58479		
3	8.13285	0.01196		9.98804	9.37644	.8 46	0.62356	9.36449	.8 43	0.63551	9.58463		
4	8.13392	0.01199		9.98801	9.37700	.9 51	0.62300	9.36502	.9 49	0.63498	9.58447		
5	8.13500	0.01202		9.98798	9.37756		0.62244	9.36555		0.63445	9.58431		
6	8.13607	0.01205		9.98795	9.37812		0.62188	9.36607		0.63393	9.58415		
7	8.13714	0.01208	3	9.98792	9.37868	58	0.62132	9.36660	53	0.63340	9.58399		
8	8.13821	0.01211	.1 0	9.98789	9.37924	.1 6	0.62076	9.36713	.1 5	0.63287	9.58383		
9	8.13928	0.01214	.2 1	9.98786	9.37980	.2 11	0.62020	9.36766	.2 11	0.63234	9.58367		
			.3 1			.3 17			.3 16				
30	8.14035	0.01217	.4 1	9.98783	9.38035	.4 22	0.61965	9.36819	.4 21	0.63181	9.58351		
1	8.14142	0.01220	.5 2	9.98780	9.38091	.5 28	0.61909	9.36871	.5 27	0.63129	9.58335		
2	8.14248	0.01223	.6 2	9.98777	9.38147	.6 34	0.61853	9.36924	.6 32	0.63076	9.58319		
3	8.14355	0.01226	.7 2	9.98774	9.38202	.7 39	0.61798	9.36976	.7 37	0.63024	9.58303		
4	8.14461	0.01229	.8 2	9.98771	9.38257	.8 45	0.61743	9.37028	.8 42	0.62972	9.58287		
5	8.14567	0.01232	.9 3	9.98768	9.38313	.9 50	0.61687	9.37081	.9 48	0.62919	9.58271		
6	8.14673	0.01235		9.98765	9.38368		0.61632	9.37133		0.62867	9.58255		
7	8.14779	0.01238		9.98762	9.38423		0.61577	9.37185		0.62815	9.58239		
8	8.14885	0.01241		9.98759	9.38479	55	0.61521	9.37237	52	0.62763	9.58223		
9	8.14990	0.01244		9.98756	9.38534	.1 6	0.61466	9.37289	.1 5	0.62711	9.58207		
			.2 1			.2 11			.2 10				
40	8.15096	0.01247	.3 1	9.98753	9.38589	.3 17	0.61411	9.37341	.3 16	0.62659	9.58191		
1	8.15201	0.01250	.4 2	9.98750	9.38644	.4 22	0.61356	9.37393	.4 21	0.62607	9.58175		
2	8.15307	0.01254	.5 2	9.98746	9.38699	.5 28	0.61301	9.37445	.5 26	0.62555	9.58159		
3	8.15412	0.01257	.6 3	9.98743	9.38754	.6 33	0.61246	9.37497	.6 31	0.62503	9.58143		
4	8.15517	0.01260	.7 3	9.98740	9.38808	.7 39	0.61192	9.37549	.7 36	0.62451	9.58126		
5	8.15621	0.01263		9.98737	9.38863	.8 44	0.61137	9.37600	.8 42	0.62400	9.58110		
6	8.15726	0.01266		9.98734	9.38918	.9 50	0.61082	9.37652	.9 47	0.62348	9.58094		
7	8.15831	0.01269		9.98731	9.38972		0.61028	9.37703		0.62297	9.58078		
8	8.15935	0.01272		9.98728	9.39027		0.60973	9.37755		0.62245	9.58062		
9	8.16040	0.01275		9.98725	9.39081	54	0.60919	9.37806	51	0.62194	9.58046		
			.1 5			.1 5			.1 5				
50	8.16144	0.01278	.2 1	9.98722	9.39136	.2 11	0.60864	9.37858	.2 10	0.62142	9.58030		
1	8.16248	0.01281	.3 1	9.98719	9.39190	.3 16	0.60810	9.37909	.3 15	0.62091	9.58014		
2	8.16352	0.01285	.4 2	9.98715	9.39245	.4 22	0.60755	9.37960	.4 20	0.62040	9.57998		
3	8.16456	0.01288	.5 2	9.98712	9.39299	.5 27	0.60701	9.38011	.5 26	0.61989	9.57981		
4	8.16559	0.01291	.6 3	9.98709	9.39353	.6 32	0.60647	9.38062	.6 31	0.61938	9.57965		
5	8.16663	0.01294	.7 3	9.98706	9.39407	.7 38	0.60593	9.38113	.7 36	0.61887	9.57949		
6	8.16766	0.01297	.8 4	9.98703	9.39461	.8 43	0.60539	9.38164	.8 41	0.61836	9.57933		
7	8.16870	0.01300	.9 4	9.98700	9.39515	.9 49	0.60485	9.38215	.9 46	0.61785	9.57917		
8	8.16973	0.01303		9.98697	9.39576		0.60431	9.38266		0.61734	9.57901		
9	8.17076	0.01306		9.98694	9.39623		0.60377	9.38317		0.61683	9.57885		
60	8.17179	0.01310		9.98690	9.39677		0.60323	9.38368		0.61632	9.57868		
107	.5 53												
.1 11	.6 64												
.2 21	.7 75												
.3 32	.8 86												
.4 43	.9 98												
76°											76°		
	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV			

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

— 178 —

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

15°	15°										17			
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4
0'	8.23140	0.01506		9.98494	9.42805		0.57195	9.41300		0.58700	9.56889			
1	8.23235	0.01509		9.98491	9.42856		0.57144	9.41347		0.58653	9.56873			
2	8.23331	0.01512		9.98488	9.42906		0.57094	9.41394		0.58606	9.56856			
3	8.23427	0.01516		9.98484	9.42957		0.57043	9.41441		0.58559	9.56840			
4	8.23522	0.01519		9.98481	9.43007		0.56993	9.41488		0.58512	9.56824			
5	8.23618	0.01523		9.98477	9.43057		0.56943	9.41535		0.58465	9.56807			
6	8.23713	0.01526		9.98474	9.43108		0.56892	9.41582		0.58418	9.56791			
7	8.23809	0.01529		9.98471	9.43158		0.56842	9.41628		0.58372	9.56774			
8	8.23904	0.01533		9.98467	9.43208		0.56792	9.41675		0.58325	9.56758			
9	8.23999	0.01536		9.98464	9.43258		0.56742	9.41722		0.58278	9.56741			
10	8.24094	0.01540		9.98460	9.43308		0.56692	9.41768		0.58232	9.56725			
1	8.24189	0.01543		9.98457	9.43358		0.56642	9.41815		0.58185	9.56708			
2	8.24283	0.01547		9.98453	9.43408		0.56592	9.41861		0.58139	9.56691			
3	8.24378	0.01550		9.98450	9.43458		0.56542	9.41908		0.58092	9.56675			
4	8.24472	0.01553		9.98447	9.43508		0.56492	9.41954		0.58046	9.56658			
5	8.24567	0.01557		9.98443	9.43558		0.56442	9.42001		0.57999	9.56642			
6	8.24661	0.01560		9.98440	9.43607		0.56393	9.42047		0.57953	9.56625			
7	8.24755	0.01564		9.98436	9.43657		0.56343	9.42093		0.57907	9.56609			
8	8.24850	0.01567		9.98433	9.43707		0.56293	9.42139		0.57861	9.56592			
9	8.24944	0.01571		9.98429	9.43756		0.56244	9.42186		0.57814	9.56576			
20	8.25037	0.01575		9.98426	9.43806		0.56194	9.42232		0.57768	9.56559			
1	8.25131	0.01578		9.98422	9.43855		0.56145	9.42278		0.57722	9.56543			
2	8.25225	0.01581		9.98419	9.43905		0.56095	9.42324		0.57676	9.56526			
3	8.25318	0.01585		9.98415	9.43954		0.56046	9.42370		0.57630	9.56509			
4	8.25412	0.01588		9.98412	9.44004		0.55996	9.42416		0.57584	9.56493			
5	8.25505	0.01591		9.98409	9.44053		0.55947	9.42461		0.57539	9.56476			
6	8.25599	0.01595		9.98405	9.44102		0.55898	9.42507		0.57493	9.56460			
7	8.25692	0.01598		9.98402	9.44151		0.55849	9.42553		0.57447	9.56443			
8	8.25785	0.01602		9.98398	9.44201		0.55799	9.42599		0.57401	9.56426			
9	8.25878	0.01605		9.98395	9.44250		0.55750	9.42644		0.57356	9.56410			
30	8.25971	0.01609		9.98391	9.44299		0.55701	9.42690		0.57310	9.56393			
1	8.26064	0.01612		9.98388	9.44348		0.55652	9.42735		0.57265	9.56377			
2	8.26156	0.01616		9.98384	9.44397		0.55603	9.42781		0.57219	9.56360			
3	8.26249	0.01619		9.98381	9.44446		0.55554	9.42826		0.57174	9.56343			
4	8.26341	0.01623		9.98377	9.44495		0.55505	9.42872		0.57128	9.56327			
5	8.26434	0.01627		9.98373	9.44544		0.55456	9.42917		0.57083	9.56310			
6	8.26526	0.01630		9.98370	9.44592		0.55408	9.42962		0.57038	9.56293			
7	8.26618	0.01634		9.98366	9.44641		0.55359	9.43007		0.56993	9.56277			
8	8.26710	0.01637		9.98363	9.44690		0.55310	9.43053		0.56947	9.56260			
9	8.26802	0.01641		9.98359	9.44738		0.55262	9.43098		0.56902	9.56244			
40	8.26894	0.01644		9.98356	9.44787		0.55213	9.43143		0.56857	9.56227			
1	8.26986	0.01648		9.98352	9.44836		0.55164	9.43188		0.56812	9.56210			
2	8.27077	0.01651		9.98349	9.44884		0.55116	9.43233		0.56767	9.56194			
3	8.27169	0.01655		9.98345	9.44933		0.55067	9.43278		0.56722	9.56177			
4	8.27261	0.01658		9.98342	9.44981		0.55019	9.43323		0.56677	9.56160			
5	8.27352	0.01662		9.98338	9.45029		0.54971	9.43367		0.56633	9.56143			
6	8.27443	0.01666		9.98334	9.45078		0.54922	9.43412		0.56588	9.56127			
7	8.27534	0.01669		9.98331	9.45126		0.54874	9.43457		0.56543	9.56110			
8	8.27625	0.01673		9.98327	9.45174		0.54826	9.43502		0.56498	9.56093			
9	8.27716	0.01676		9.98324	9.45222		0.54778	9.43546		0.56454	9.56077			
50	8.27807	0.01680		9.98320	9.45271		0.54729	9.43591		0.56409	9.56060			
1	8.27898	0.01683		9.98317	9.45319		0.54681	9.43635		0.56365	9.56043			
2	8.27989	0.01687		9.98313	9.45367		0.54633	9.43680		0.56320	9.56027			
3	8.28079	0.01691		9.98309	9.45415		0.54585	9.43724		0.56276	9.56010			
4	8.28170	0.01694		9.98306	9.45463		0.54537	9.43769		0.56231	9.55993			
5	8.28260	0.01698		9.98302	9.45511		0.54489	9.43813		0.56187	9.55976			
6	8.28351	0.01701		9.98299	9.45559		0.54441	9.43857		0.56143	9.55960			
7	8.28441	0.01705		9.98296	9.45606		0.54394	9.43901		0.56099	9.55943			
8	8.28531	0.01709		9.98291	9.45654		0.54346	9.43946		0.56054	9.55926			
9	8.28621	0.01712		9.98288	9.45702		0.54298	9.43990		0.56010	9.55909			
60	8.28711	0.01716		9.98284	9.45750		0.54250	9.44034		0.55966	9.55893			
95	.1 10 .2 19 .3 29 .4 38	.5 48 .6 57 .7 67 .8 76 .9 86		COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV	
74°														
74°														

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

16°		16°									17°		5	9	
		SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	2		
0'	8.28711	0.01716			9.98284	9.45750		0.54250	9.44034		0.55966	9.55893			60'
1	8.28801	0.01719			9.98281	9.45797		0.54203	9.44078		0.55922	9.55876			59
2	8.28891	0.01723			9.98277	9.45846		0.54155	9.44122		0.55878	9.55859			58
3	8.28980	0.01727			9.98273	9.45892		0.54108	9.44166		0.55834	9.55842			57
4	8.29070	0.01730			9.98270	9.45940		0.54060	9.44210		0.55790	9.55825			56
5	8.29159	0.01734			9.98266	9.45987		0.54013	9.44253		0.55747	9.55809			55
6	8.29249	0.01738			9.98262	9.46035		0.53965	9.44297		0.55703	9.55792			54
7	8.29338	0.01741			9.98259	9.46082		0.53918	9.44341		0.55659	9.55775			53
8	8.29427	0.01745			9.98255	9.46130	48	0.53870	9.44385	44	0.55615	9.55758			52
9	8.29516	0.01749			9.98251	9.46177	.1 5	0.53823	9.44428	.1 4	0.55572	9.55741			51
							.2 10			.2 9					
10	8.29605	0.01752			9.98248	9.46225	.3 14	0.53776	9.44472	.3 13	0.55528	9.55725			50
1	8.29694	0.01756			9.98244	9.46272	.4 19	0.53729	9.44516	.4 18	0.55484	9.55708			49
2	8.29783	0.01760			9.98240	9.46319	.5 24	0.53681	9.44559	.5 22	0.55441	9.55691			48
3	8.29872	0.01763			9.98237	9.46366	.6 29	0.53634	9.44602	.6 26	0.55398	9.55674			47
4	8.29960	0.01767			9.98233	9.46413	.7 34	0.53587	9.44646	.7 31	0.55354	9.55657			46
5	8.30049	0.01771			9.98229	9.46460	.8 38	0.53540	9.44689	.8 35	0.55311	9.55641			45
6	8.30137	0.01774			9.98226	9.46507	.9 43	0.53493	9.44733	.9 40	0.55267	9.55624			44
7	8.30226	0.01778			9.98222	9.46554		0.53446	9.44776		0.55224	9.55607			43
8	8.30314	0.01782			9.98218	9.46601		0.53399	9.44819		0.55181	9.55590			42
9	8.30402	0.01785			9.98215	9.46648		0.53352	9.44862		0.55138	9.55573			41
20	8.30490	0.01789			9.98211	9.46695	47	0.53306	9.44905	43	0.55095	9.55556			40
1	8.30578	0.01793			9.98207	9.46742	.1 5	0.53259	9.44948	.1 4	0.55052	9.55539			39
2	8.30666	0.01796			9.98204	9.46788	.2 9	0.53212	9.44992	.2 9	0.55008	9.55523			38
3	8.30754	0.01800			9.98200	9.46835	.3 14	0.53165	9.45035	.3 13	0.54965	9.55506			37
4	8.30842	0.01804			9.98196	9.46882	.4 19	0.53119	9.45077	.4 17	0.54923	9.55489			36
5	8.30929	0.01808			9.98192	9.46928	.5 24	0.53072	9.45120	.5 22	0.54880	9.55472			35
6	8.31017	0.01811			9.98189	9.46975	.6 28	0.53025	9.45163	.6 26	0.54837	9.55455			34
7	8.31104	0.01815	4		9.98185	9.47022	.7 33	0.52979	9.45206	.7 30	0.54794	9.55438			33
8	8.31191	0.01819	.1 10		9.98181	9.47068	.8 38	0.52932	9.45249	.8 34	0.54751	9.55421			32
9	8.31279	0.01823	.2 1		9.98177	9.47114	.9 42	0.52886	9.45292	.9 39	0.54708	9.55404			31
			.3 1												
30	8.31366	0.01826	.4 2		9.98174	9.47161		0.52840	9.45334		0.54666	9.55387			30
1	8.31453	0.01830	.5 2		9.98170	9.47207		0.52793	9.45377		0.54623	9.55370			29
2	8.31540	0.01834	.6 2		9.98166	9.47254		0.52747	9.45419		0.54581	9.55354			28
3	8.31627	0.01838	.7 3		9.98162	9.47300	46	0.52701	9.45462	42	0.54538	9.55337			27
4	8.31714	0.01841	.8 3		9.98159	9.47346	.1 5	0.52654	9.45504	.1 4	0.54496	9.55320			26
5	8.31800	0.01845	.9 4		9.98155	9.47392	.2 9	0.52608	9.45547	.2 8	0.54453	9.55303			25
6	8.31887	0.01849			9.98151	9.47439	.3 14	0.52562	9.45589	.3 13	0.54411	9.55286			24
7	8.31974	0.01853			9.98147	9.47485	.4 18	0.52516	9.45632	.4 17	0.54368	9.55269			23
8	8.32060	0.01856			9.98144	9.47531	.5 23	0.52470	9.45674	.5 21	0.54326	9.55252			22
9	8.32146	0.01860			9.98140	9.47577	.6 28	0.52424	9.45716	.6 25	0.54284	9.55235			21
			.7 32				.7 32			.7 29					
40	8.32233	0.01864	.8 37		9.98136	9.47623	.8 37	0.52378	9.45758	.8 34	0.54242	9.55218			20
1	8.32319	0.01868	.9 41		9.98132	9.47669	.9 41	0.52332	9.45801	.9 38	0.54199	9.55201			19
2	8.32405	0.01871			9.98129	9.47715		0.52286	9.45843		0.54157	9.55184			18
3	8.32491	0.01875			9.98125	9.47760		0.52240	9.45886		0.54115	9.55167			17
4	8.32577	0.01879			9.98121	9.47806		0.52194	9.45927		0.54073	9.55150			16
5	8.32663	0.01883			9.98117	9.47852		0.52148	9.45969		0.54031	9.55133			15
6	8.32749	0.01887			9.98113	9.47898	45	0.52103	9.46011	41	0.53989	9.55116			14
7	8.32834	0.01890			9.98110	9.47944	.1 5	0.52057	9.46053	.1 4	0.53947	9.55099			13
8	8.32920	0.01894			9.98106	9.47989	.2 9	0.52011	9.46095	.2 8	0.53905	9.55082			12
9	8.33005	0.01898			9.98102	9.48035	.3 12	0.51965	9.46136	.3 12	0.53864	9.55065			11
			.4 16				.4 16			.4 16					
50	8.33091	0.01902	.5 23		9.98098	9.48081	.5 23	0.51920	9.46178	.5 21	0.53822	9.55048			10
1	8.33176	0.01906	.6 27		9.98094	9.48126	.6 27	0.51874	9.46220	.6 25	0.53780	9.55031			9
2	8.33261	0.01910	.7 32		9.98090	9.48172	.7 32	0.51829	9.46262	.7 29	0.53738	9.55014			8
3	8.33347	0.01913	.8 36		9.98087	9.48217	.8 36	0.51783	9.46303	.8 33	0.53697	9.54997			7
4	8.33432	0.01917	.9 41		9.98083	9.48263	.9 41	0.51738	9.46345	.9 37	0.53655	9.54980			6
5	8.33517	0.01921			9.98079	9.48308		0.51693	9.46386		0.53614	9.54963			5
6	8.33602	0.01925			9.98075	9.48353		0.51647	9.46428		0.53572	9.54946			4
7	8.33686	0.01929			9.98071	9.48399		0.51602	9.46469		0.53531	9.54929			3
8	8.33771	0.01933			9.98067	9.48444		0.51557	9.46511		0.53489	9.54912			2
9	8.33856	0.01937			9.98063	9.48489		0.51511	9.46552		0.53448	9.54895			1
60	8.33940	0.01940			9.98060	9.48534		0.51466	9.46594		0.53406	9.54877			0
87		.5 1 44			COSEC	PP		SEN	COTG	PP	TG	COS	PP	SEC	SEMV
.1	9	.6 52													
.2	17	.7 61													
.3	26	.8 70													
.4	35	.9 78													
73°															73°

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

17°	17°										17			
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4
0'	8.33940	0.01940		9.98060	9.48534		0.51466	9.46594		0.53406				
1	8.34025	0.01944		9.98056	9.48579		0.51421	9.46635		0.53365				
2	8.34109	0.01948		9.98052	9.48624		0.51376	9.46676		0.53324				
3	8.34194	0.01952		9.98048	9.48669		0.51331	9.46717		0.53283				
4	8.34278	0.01956		9.98044	9.48714		0.51286	9.46758		0.53242				
5	8.34362	0.01960		9.98040	9.48759		0.51241	9.46800		0.53200				
6	8.34446	0.01964		9.98036	9.48804		0.51196	9.46841		0.53159				
7	8.34530	0.01968		9.98033	9.48849		0.51151	9.46882		0.53118				
8	8.34614	0.01971		9.98029	9.48894		0.51106	9.46923		0.53077				
9	8.34698	0.01975		9.98025	9.48939		0.51061	9.46964		0.53036				
10	8.34781	0.01979		9.98021	9.48984	45	0.51016	9.47005	41	0.52995				
1	8.34865	0.01983		9.98017	9.49029	.1 5	0.50971	9.47046	.1 4	0.52955				
2	8.34949	0.01987		9.98013	9.49073	.2 9	0.50927	9.47086	.2 8	0.52914				
3	8.35032	0.01991		9.98009	9.49118	.3 14	0.50882	9.47127	.3 12	0.52873				
4	8.35116	0.01995		9.98005	9.49163	.4 18	0.50837	9.47168	.4 16	0.52832				
5	8.35199	0.01999		9.98001	9.49207	.5 23	0.50793	9.47209	.5 21	0.52791				
6	8.35282	0.02003		9.97997	9.49252	.6 27	0.50748	9.47249	.6 25	0.52751				
7	8.35365	0.02007		9.97993	9.49296	.7 32	0.50704	9.47290	.7 29	0.52710				
8	8.35448	0.02011		9.97989	9.49341	.8 38	0.50659	9.47330	.8 33	0.52670				
9	8.35531	0.02014		9.97986	9.49385	.9 41	0.50615	9.47371	.9 37	0.52629				
20	8.35614	0.02018		9.97982	9.49430		0.50570	9.47412		0.52589				
1	8.35697	0.02022		9.97978	9.49474		0.50526	9.47452		0.52548				
2	8.35780	0.02026		9.97974	9.49519		0.50481	9.47492		0.52508				
3	8.35863	0.02030		9.97970	9.49563		0.50437	9.47533		0.52467				
4	8.35945	0.02034		9.97966	9.49607		0.50393	9.47573		0.52427				
5	8.36028	0.02038		9.97962	9.49652		0.50348	9.47613		0.52387				
6	8.36110	0.02042		9.97958	9.49696		0.50304	9.47654		0.52346				
7	8.36193	0.02046	4	9.97954	9.49740	44	0.50260	9.47694	40	0.52306				
8	8.36275	0.02050	.10	9.97950	9.49784	.1 4	0.50216	9.47734	.1 4	0.52266				
9	8.36357	0.02054	.21	9.97946	9.49828	.2 9	0.50172	9.47774	.2 8	0.52226				
30	8.36439	0.02058	.31	9.97942	9.49872	.3 13	0.50128	9.47814	.3 12	0.52186				
1	8.36521	0.02062	.42	9.97938	9.49916	.4 18	0.50084	9.47854	.4 16	0.52146				
2	8.36603	0.02066	.52	9.97934	9.49960	.5 22	0.50040	9.47894	.5 20	0.52106				
3	8.36685	0.02070	.62	9.97930	9.50004	.6 26	0.49996	9.47934	.6 24	0.52066				
4	8.36767	0.02074	.73	9.97926	9.50048	.7 31	0.49952	9.47974	.7 28	0.52026				
5	8.36849	0.02078	.83	9.97922	9.50092	.8 35	0.49908	9.48014	.8 32	0.51986				
6	8.36930	0.02082	.94	9.97918	9.50136	.9 40	0.49864	9.48054	.9 36	0.51946				
7	8.37012	0.02086		9.97914	9.50180		0.49820	9.48094		0.51906				
8	8.37093	0.02090		9.97910	9.50223		0.49777	9.48133		0.51867				
9	8.37175	0.02094		9.97906	9.50267		0.49733	9.48173		0.51827				
40	8.37256	0.02098		9.97902	9.50311		0.49689	9.48213		0.51787				
1	8.37337	0.02102		9.97898	9.50355		0.49645	9.48252		0.51748				
2	8.37418	0.02106		9.97894	9.50398		0.49602	9.48292		0.51708				
3	8.37500	0.02110		9.97890	9.50442	43	0.49558	9.48332	39	0.51668				
4	8.37581	0.02114		9.97886	9.50485	.1 4	0.49515	9.48371	.1 4	0.51629				
5	8.37662	0.02118		9.97882	9.50529	.2 9	0.49471	9.48411	.2 8	0.51589				
6	8.37742	0.02122		9.97878	9.50572	.3 13	0.49428	9.48450	.3 12	0.51550				
7	8.37823	0.02126		9.97874	9.50616	.4 17	0.49384	9.48490	.4 16	0.51510				
8	8.37904	0.02130		9.97870	9.50659	.5 22	0.49341	9.48529	.5 20	0.51471				
9	8.37985	0.02134		9.97866	9.50703	.6 26	0.49297	9.48568	.6 23	0.51432				
50	8.38065	0.02139		9.97861	9.50746	.7 30	0.49254	9.48607	.7 27	0.51393				
1	8.38146	0.02143		9.97857	9.50789	.8 34	0.49211	9.48647	.8 31	0.51353				
2	8.38226	0.02147		9.97853	9.50833	.9 39	0.49167	9.48686	.9 35	0.51314				
3	8.38306	0.02151		9.97849	9.50876		0.49124	9.48725		0.51275				
4	8.38387	0.02155		9.97845	9.50919		0.49081	9.48764		0.51236				
5	8.38467	0.02159		9.97841	9.50962		0.49038	9.48803		0.51197				
6	8.38547	0.02163		9.97837	9.51005		0.48995	9.48842		0.51158				
7	8.38627	0.02167		9.97833	9.51048		0.48952	9.48881		0.51119				
8	8.38707	0.02171		9.97829	9.51092		0.48908	9.48920		0.51080				
9	8.38787	0.02175		9.97825	9.51135		0.48865	9.48959		0.51041				
60	8.38866	0.02179		9.97821	9.51178		0.48822	9.48998		0.51002				
											72°			
82	.5 41	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV			
.1	8													
.2	16													
.3	25													
.4	33													

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

18°		18°									18		.5 9	
SEM V		SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1 2 .5 9	.6 11		
0'	8.38866	0.02179		9.97821	9.51178		0.48822	9.48998		0.51002	9.53844	60'		
1	8.38946	0.02183		9.97817	9.51221		0.48779	9.49037		0.50963	9.53826	59		
2	8.39026	0.02188		9.97812	9.51263		0.48737	9.49076		0.50924	9.53809	58		
3	8.39105	0.02192		9.97808	9.51306		0.48694	9.49115		0.50885	9.53792	57		
4	8.39185	0.02196		9.97804	9.51349		0.48651	9.49153		0.50847	9.53774	56		
5	8.39264	0.02200		9.97800	9.51392		0.48608	9.49192		0.50808	9.53757	55		
6	8.39344	0.02204		9.97796	9.51435		0.48565	9.49231		0.50769	9.53739	54		
7	8.39423	0.02208		9.97792	9.51478		0.48522	9.49269		0.50731	9.53722	53		
8	8.39502	0.02212		9.97788	9.51520		0.48480	9.49308		0.50692	9.53704	52		
9	8.39581	0.02216		9.97784	9.51563		0.48437	9.49347		0.50653	9.53687	51		
10	8.39660	0.02221		9.97779	9.51606	43	0.48394	9.49385	39	0.50615	9.53670	50		
1	8.39739	0.02225		9.97775	9.51648	.1 4	0.48352	9.49424	.1 4	0.50576	9.53652	49		
2	8.39818	0.02229		9.97771	9.51691	.2 9	0.48309	9.49462	.2 8	0.50538	9.53635	48		
3	8.39897	0.02233		9.97767	9.51734	.3 13	0.48266	9.49500	.3 12	0.50500	9.53617	47		
4	8.39976	0.02237		9.97763	9.51776	.4 17	0.48224	9.49539	.4 16	0.50461	9.53600	46		
5	8.40055	0.02241		9.97759	9.51819	.5 22	0.48181	9.49577	.5 20	0.50423	9.53582	45		
6	8.40133	0.02246		9.97754	9.51861	.6 26	0.48139	9.49615	.6 23	0.50385	9.53565	44		
7	8.40212	0.02250		9.97750	9.51903	.7 30	0.48097	9.49654	.7 27	0.50346	9.53547	43		
8	8.40290	0.02254		9.97746	9.51946	.8 34	0.48054	9.49692	.8 31	0.50308	9.53530	42		
9	8.40369	0.02258		9.97742	9.51988	.9 39	0.48012	9.49730	.9 35	0.50270	9.53512	41		
20	8.40447	0.02262		9.97738	9.52031		0.47969	9.49768		0.50232	9.53495	40		
1	8.40525	0.02266		9.97734	9.52073		0.47927	9.49806		0.50194	9.53477	39		
2	8.40603	0.02271		9.97729	9.52115		0.47885	9.49844		0.50156	9.53460	38		
3	8.40681	0.02275		9.97725	9.52157		0.47843	9.49882		0.50118	9.53442	37		
4	8.40759	0.02279		9.97721	9.52199		0.47801	9.49920		0.50080	9.53425	36		
5	8.40837	0.02283		9.97717	9.52242		0.47758	9.49958		0.50042	9.53407	35		
6	8.40915	0.02287		9.97713	9.52284		0.47716	9.49996		0.50004	9.53390	34		
7	8.40993	0.02292	4	9.97708	9.52326	42	0.47674	9.50034	38	0.49966	9.53372	33		
8	8.41071	0.02296	.1 0	9.97704	9.52368	.1 4	0.47632	9.50072	.1 4	0.49928	9.53355	32		
9	8.41149	0.02300	.2 1	9.97700	9.52410	.2 8	0.47590	9.50110	.2 8	0.49890	9.53337	31		
30	8.41226	0.02304	.3 1			.3 13			.3 11					
1	8.41304	0.02309	.4 2	9.97696	9.52452	.4 17	0.47548	9.50148	.4 15	0.49852	9.53320	30		
2	8.41381	0.02313	.5 2	9.97691	9.52494	.5 21	0.47506	9.50185	.5 19	0.49815	9.53302	29		
3	8.41459	0.02317	.6 2	9.97687	9.52536	.6 25	0.47464	9.50223	.6 23	0.49777	9.53285	28		
4	8.41536	0.02321	.7 3	9.97683	9.52578	.7 29	0.47422	9.50261	.7 27	0.49739	9.53267	27		
5	8.41613	0.02326	.8 3	9.97679	9.52620	.8 34	0.47380	9.50298	.8 30	0.49702	9.53249	26		
6	8.41690	0.02330	.9 4	9.97674	9.52661	.9 38	0.47339	9.50336	.9 34	0.49664	9.53232	25		
7	8.41767	0.02334		9.97670	9.52703		0.47297	9.50374		0.49626	9.53214	24		
8	8.41844	0.02338		9.97666	9.52745		0.47255	9.50411		0.49589	9.53197	23		
9	8.41921	0.02343		9.97662	9.52787		0.47213	9.50449		0.49551	9.53179	22		
40	8.41998	0.02347		9.97657	9.52829		0.47171	9.50486		0.49514	9.53162	21		
1	8.42075	0.02351		9.97653	9.52870		0.47130	9.50523		0.49477	9.53144	20		
2	8.42152	0.02355		9.97649	9.52912		0.47088	9.50561		0.49439	9.53126	19		
3	8.42229	0.02360		9.97645	9.52953		0.47047	9.50598		0.49402	9.53109	18		
4	8.42305	0.02364		9.97640	9.52995	41	0.47005	9.50635	37	0.49365	9.53091	17		
5	8.42382	0.02368		9.97636	9.53037	.1 4	0.46963	9.50673	.1 4	0.49327	9.53073	16		
6	8.42458	0.02372		9.97632	9.53078	.2 8	0.46922	9.50710	.2 7	0.49290	9.53056	15		
7	8.42535	0.02377		9.97628	9.53120	.3 12	0.46880	9.50747	.3 11	0.49253	9.53038	14		
8	8.42611	0.02381		9.97623	9.53161	.4 16	0.46839	9.50784	.4 15	0.49216	9.53021	13		
9	8.42687	0.02385		9.97619	9.53202	.5 21	0.46798	9.50821	.5 19	0.49179	9.53003	12		
50	8.42764	0.02390		9.97615	9.53244	.6 25	0.46756	9.50858	.6 22	0.49142	9.52985	11		
1	8.42840	0.02394		9.97610	9.53285	.7 29	0.46715	9.50896	.7 26	0.49104	9.52968	10		
2	8.42916	0.02398		9.97606	9.53327	.8 33	0.46673	9.50933	.8 30	0.49067	9.52950	9		
3	8.42992	0.02403		9.97602	9.53368	.9 37	0.46632	9.50970	.9 33	0.49030	9.52932	8		
4	8.43068	0.02407		9.97597	9.53409		0.46591	9.51007		0.48993	9.52915	7		
5	8.43144	0.02411		9.97593	9.53450		0.46550	9.51043		0.48957	9.52897	6		
6	8.43219	0.02416		9.97589	9.53492		0.46508	9.51080		0.48920	9.52879	5		
7	8.43295	0.02420		9.97584	9.53533		0.46467	9.51117		0.48883	9.52862	4		
8	8.43371	0.02424		9.97580	9.53574		0.46426	9.51154		0.48846	9.52844	3		
9	8.43446	0.02429		9.97576	9.53615		0.46385	9.51191		0.48809	9.52826	2		
60	8.43522	0.02433		9.97571	9.53656		0.46344	9.51227		0.48773	9.52808	1		
78														
.1 8														
.2 16														
.3 23														
.4 31														
.5 39														
.6 47														
.7 55														
.8 62														
.9 70														
71°		COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEM V	71°		

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

19°											18				5		9			
19°	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4	.5	.6	.7	.8	.9	
											.1	.2	.3	.4	.5	.6	.7	.8	.9	
0'	8.43522	0.02433		9.97567	9.53697		0.46303	9.51264		0.48736	9.52791									60'
1	8.43597	0.02437		9.97563	9.53738		0.46262	9.51301		0.48699	9.52773									59
2	8.43673	0.02442		9.97558	9.53779		0.46221	9.51337		0.48663	9.52755									58
3	8.43748	0.02446		9.97554	9.53820		0.46180	9.51374		0.48626	9.52738									57
4	8.43823	0.02450		9.97550	9.53861		0.46139	9.51411		0.48589	9.52720									56
5	8.43898	0.02455		9.97545	9.53902		0.46098	9.51447		0.48553	9.52702									55
6	8.43974	0.02459		9.97541	9.53943		0.46057	9.51484		0.48516	9.52684									54
7	8.44049	0.02464		9.97536	9.53984		0.46016	9.51521		0.48480	9.52667									53
8	8.44124	0.02468		9.97532	9.54025		0.45975	9.51557		0.48443	9.52649									52
9	8.44199	0.02472		9.97528	9.54065		0.45935	9.51593		0.48407	9.52631									51
10	8.44273	0.02477		9.97523	9.54106	41	0.45894	9.51629	37	0.48371	9.52613									50
1	8.44348	0.02481		9.97519	9.54147	.1 4	0.45853	9.51666	.1 4	0.48334	9.52596									49
2	8.44423	0.02485		9.97515	9.54187	.2 8	0.45813	9.51702	.2 7	0.48298	9.52578									48
3	8.44498	0.02490		9.97510	9.54228	.3 12	0.45772	9.51738	.3 11	0.48262	9.52560									47
4	8.44572	0.02494		9.97506	9.54269	.4 16	0.45731	9.51774	.4 15	0.48226	9.52542									46
5	8.44647	0.02499		9.97501	9.54309	.5 21	0.45691	9.51811	.5 19	0.48189	9.52525									45
6	8.44721	0.02503		9.97497	9.54350	.6 25	0.45650	9.51847	.6 22	0.48153	9.52507									44
7	8.44796	0.02508		9.97492	9.54390	.7 29	0.45610	9.51883	.7 26	0.48117	9.52489									43
8	8.44870	0.02512		9.97488	9.54431	.8 33	0.45569	9.51919	.8 30	0.48081	9.52471									42
9	8.44944	0.02516		9.97484	9.54471	.9 37	0.45529	9.51955	.9 33	0.48045	9.52453									41
20	8.45018	0.02521		9.97479	9.54512		0.45488	9.51991		0.48009	9.52435									40
1	8.45092	0.02525		9.97475	9.54552		0.45448	9.52027		0.47973	9.52418									39
2	8.45167	0.02530		9.97470	9.54593		0.45407	9.52063		0.47937	9.52400									38
3	8.45241	0.02534		9.97466	9.54633		0.45367	9.52099		0.47901	9.52382									37
4	8.45314	0.02539		9.97461	9.54673		0.45327	9.52135		0.47865	9.52364									36
5	8.45388	0.02543		9.97457	9.54714		0.45286	9.52171		0.47829	9.52346									35
6	8.45462	0.02547		9.97453	9.54754		0.45246	9.52207		0.47793	9.52328									34
7	8.45536	0.02552	4	9.97448	9.54794	40	0.45205	9.52242	36	0.47758	9.52311									33
8	8.45610	0.02556	.1 0	9.97444	9.54835	.1 4	0.45165	9.52278	.1 4	0.47722	9.52293									32
9	8.45683	0.02561	.2 1	9.97439	9.54875	.2 8	0.45125	9.52314	.2 7	0.47686	9.52275									31
30	8.45757	0.02565	.3 1			.3 12			.3 11											
1	8.45830	0.02570	.4 2	9.97435	9.54915	.4 16	0.45085	9.52350	.4 14	0.47650	9.52257									30
2	8.45904	0.02574	.5 2	9.97430	9.54955	.5 20	0.45045	9.52385	.5 18	0.47615	9.52239									29
3	8.45977	0.02579	.6 2	9.97426	9.54995	.6 24	0.45005	9.52421	.6 22	0.47579	9.52221									28
4	8.46050	0.02583	.7 3	9.97421	9.55035	.7 28	0.44965	9.52456	.7 25	0.47544	9.52203									27
5	8.46124	0.02588	.8 3	9.97417	9.55075	.8 32	0.44925	9.52492	.8 29	0.47508	9.52185									26
6	8.46197	0.02592	.9 4	9.97412	9.55115	.9 36	0.44885	9.52527	.9 32	0.47473	9.52168									25
7	8.46270	0.02597		9.97408	9.55155		0.44845	9.52563		0.47437	9.52150									24
8	8.46343	0.02601		9.97403	9.55195		0.44805	9.52598		0.47402	9.52132									23
9	8.46416	0.02606		9.97399	9.55235		0.44765	9.52634		0.47366	9.52114									22
40	8.46489	0.02610		9.97394	9.55275		0.44725	9.52669		0.47331	9.52096									21
1	8.46562	0.02615		9.97390	9.55315		0.44685	9.52705		0.47295	9.52078									20
2	8.46634	0.02619		9.97385	9.55355		0.44645	9.52740		0.47260	9.52060									19
3	8.46707	0.02624		9.97381	9.55395		0.44605	9.52775		0.47225	9.52042									18
4	8.46780	0.02628		9.97376	9.55434		0.44566	9.52811		0.47189	9.52024									17
5	8.46852	0.02633		9.97372	9.55474	39	0.44526	9.52846	35	0.47154	9.52006									16
6	8.46925	0.02637		9.97367	9.55514	.1 4	0.44486	9.52881	.1 4	0.47119	9.51988									15
7	8.46997	0.02642		9.97363	9.55554	.2 8	0.44446	9.52916	.2 7	0.47084	9.51970									14
8	8.47070	0.02647		9.97358	9.55593	.3 12	0.44407	9.52951	.3 11	0.47049	9.51952									13
9	8.47142	0.02651		9.97353	9.55633	.4 16	0.44367	9.52986	.4 14	0.47014	9.51934									12
50	8.47214	0.02656		9.97349	9.55673	.5 20	0.44327	9.53021	.5 18	0.46979	9.51916									11
1	8.47287	0.02660				.6 23			.6 21											
2	8.47359	0.02665		9.97344	9.55712	.7 27	0.44288	9.53056	.7 25	0.46944	9.51898									10
3	8.47431	0.02669		9.97340	9.55752	.8 31	0.44248	9.53092	.8 28	0.46908	9.51880									9
4	8.47503	0.02674		9.97335	9.55791	.9 35	0.44209	9.53126	.9 32	0.46874	9.51862									8
5	8.47575	0.02678		9.97331	9.55831		0.44169	9.53161		0.46839	9.51844									7
6	8.47647	0.02683		9.97326	9.55870		0.44130	9.53196		0.46804	9.51826									6
7	8.47719	0.02688		9.97322	9.55910		0.44090	9.53231		0.46769	9.51808									5
8	8.47791	0.02693		9.97317	9.55949		0.44051	9.53266		0.46734	9.51790									4
9	8.47862	0.02697		9.97312	9.55989		0.44011	9.53301		0.46699	9.51772									3
60	8.47934	0.02701		9.97308	9.56028		0.43972	9.53336		0.46664	9.51754									2
				9.97303	9.56067		0.43933	9.53370		0.46630	9.51736									1
70°											70°				5		9			
73	.5	37	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV								
.1 7	.6	44																		
.2 15	.7	51																		
.3 22	.8	58																		
.4 29	.9	66																		

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

20°											18		.5		9			
											.1		.2		.3		.4	
											.5		.6		.7		.8	
											.9		.10		.11		.12	
											.13		.14		.15		.16	
											.17		.18		.19		.20	
											.21		.22		.23		.24	
											.25		.26		.27		.28	
											.29		.30		.31		.32	
											.33		.34		.35		.36	
											.37		.38		.39		.40	
											.41		.42		.43		.44	
											.45		.46		.47		.48	
											.49		.50		.51		.52	
											.53		.54		.55		.56	
											.57		.58		.59		.60	
											.61		.62		.63		.64	
											.65		.66		.67		.68	
											.69		.70		.71		.72	
											.73		.74		.75		.76	
											.77		.78		.79		.80	
											.81		.82		.83		.84	
											.85		.86		.87		.88	
											.89		.90		.91		.92	
											.93		.94		.95		.96	
											.97		.98		.99		.100	
											.101		.102		.103		.104	
											.105		.106		.107		.108	
											.109		.110		.111		.112	
											.113		.114		.115		.116	
											.117		.118		.119		.120	
											.121		.122		.123		.124	
											.125		.126		.127		.128	
											.129		.130		.131		.132	
											.133		.134		.135		.136	
											.137		.138		.139		.140	
											.141		.142		.143		.144	
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											.173		.174		.175		.176	
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											.401		.402		.403		.404	
											.405		.406		.407		.408	
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											.413		.414		.415		.416	
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											.461		.462		.463		.464	
											.465		.466		.467		.468	
											.469		.470		.471		.472	
											.473		.474		.475		.476	
											.477		.478		.479		.480	
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											.489		.490		.491		.492	
											.493		.494		.495		.496	
											.497		.498		.499		.500	
											.501		.502		.503		.504	
											.505		.506		.507		.508	
											.509		.510		.511		.512	
											.513		.514		.515		.516	
											.517		.518		.519		.520	
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											.529		.530		.531		.532	
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											.541		.542		.543		.544	
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											.565		.566		.567		.568	
											.569		.570		.571		.572	
											.573		.574		.575		.576	
											.577		.578		.579		.580	
											.581		.582		.583		.584	
											.585		.586		.587		.588	
											.589		.590		.591		.592	
											.593		.594		.595		.596	
											.597		.598		.599		.600	
											.601		.602		.603		.604	
											.605		.606		.607		.608	
											.609		.610		.611		.612	
											.613		.614		.615		.616	
											.617		.618		.619		.620	
											.621		.622		.623		.624	
											.625		.626		.627		.628	
											.629		.630		.631		.632	
											.633		.634		.635		.636	
											.637		.638		.639		.640	
											.641		.642		.643		.644	
											.645		.646		.647		.648	
											.649		.650		.651		.652	
											.653		.654		.655		.656	
											.657		.658		.659		.660	
											.661		.662		.663		.664	
											.665		.666		.667		.668	
											.669		.670		.671		.672	
											.673		.674		.675		.676	
											.677		.678		.679		.680	
											.681		.682		.683		.684	
											.685		.686		.687		.688	
											.689		.690		.691		.692	
											.693		.694		.695		.696	
											.697		.698		.699		.700	
											.701		.702		.703		.704	
											.705		.706		.707		.708	
											.709		.710		.711		.712	
											.713		.714		.715		.716	
											.717		.718		.719		.720	
											.721		.722		.723		.724	
											.725		.726		.727		.728	
											.729		.730		.731		.732	
											.733		.734		.735		.736	
											.737		.738		.739		.740	
											.741		.742		.743		.744	
											.745		.746		.747		.748	
											.749		.750		.751		.752	
											.753		.754		.755		.756	
											.757		.758		.759		.760	
											.761		.762		.763		.764	
											.765		.766		.767		.768	
											.769		.770		.771		.772	
											.773		.774		.775		.776	
											.777		.778		.779		.780	
											.781		.782		.783		.784	
											.785		.786		.787		.788	
											.789		.790		.791		.792	
											.793		.794		.795		.796	
											.797		.798		.799		.800	
											.801		.802		.803		.804	
											.805		.806		.807		.808	
											.809		.810		.811		.812	
											.813		.814		.815		.816	
											.817		.818		.819		.820	
											.821		.822		.823		.824	
											.825		.826		.827		.828	
											.829							

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

21°					21°							19	.5	10
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC		.1	.2	.3
0'	8.52127	0.02985		9.97015	9.58418		0.41582	9.55433		0.44567	9.50626			60'
1	8.52196	0.02990		9.97010	9.58455		0.41545	9.55466		0.44534	9.50607			59
2	8.52263	0.02995		9.97005	9.58493		0.41507	9.55499		0.44501	9.50589			58
3	8.52331	0.02999		9.97001	9.58531		0.41469	9.55532		0.44468	9.50570			57
4	8.52399	0.03004		9.96996	9.58569		0.41431	9.55564		0.44436	9.50552			56
5	8.52467	0.03009		9.96991	9.58606		0.41394	9.55597		0.44403	9.50534			55
6	8.52535	0.03014		9.96986	9.58644		0.41356	9.55630		0.44370	9.50515			54
7	8.52602	0.03019		9.96981	9.58681		0.41319	9.55663		0.44337	9.50497			53
8	8.52670	0.03024		9.96976	9.58719		0.41281	9.55695		0.44305	9.50478			52
9	8.52738	0.03029		9.96971	9.58757		0.41243	9.55728		0.44272	9.50460			51
10	8.52805	0.03034		9.96966	9.58794		0.41206	9.55761		0.44239	9.50441			50
1	8.52873	0.03038		9.96962	9.58832		0.41168	9.55793		0.44207	9.50423			49
2	8.52941	0.03043		9.96957	9.58869		0.41131	9.55826		0.44174	9.50405			48
3	8.53008	0.03048		9.96952	9.58907		0.41093	9.55858		0.44142	9.50386			47
4	8.53075	0.03053		9.96947	9.58944		0.41056	9.55891		0.44109	9.50368			46
5	8.53143	0.03058		9.96942	9.58981		0.41019	9.55923		0.44077	9.50349			45
6	8.53210	0.03063		9.96937	9.59019		0.40981	9.55956		0.44044	9.50331			44
7	8.53277	0.03068		9.96932	9.59056		0.40944	9.55988		0.44012	9.50312			43
8	8.53345	0.03073		9.96927	9.59094		0.40906	9.56021		0.43979	9.50294			42
9	8.53412	0.03078		9.96922	9.59131		0.40869	9.56053		0.43947	9.50275			41
20	8.53479	0.03083		9.96917	9.59168		0.40832	9.56085		0.43915	9.50257			40
1	8.53546	0.03088		9.96912	9.59205		0.40795	9.56118		0.43882	9.50238			39
2	8.53613	0.03093		9.96907	9.59243		0.40757	9.56150		0.43850	9.50220			38
3	8.53680	0.03097		9.96903	9.59280		0.40720	9.56182		0.43818	9.50201			37
4	8.53747	0.03102		9.96898	9.59317		0.40683	9.56215		0.43785	9.50183			36
5	8.53814	0.03107		9.96893	9.59354		0.40646	9.56247		0.43753	9.50164			35
6	8.53880	0.03112		9.96888	9.59391		0.40609	9.56279		0.43721	9.50146			34
7	8.53947	0.03117		9.96883	9.59428		0.40572	9.56311		0.43689	9.50127			33
8	8.54014	0.03122		9.96878	9.59466		0.40534	9.56343		0.43657	9.50109			32
9	8.54080	0.03127		9.96873	9.59503		0.40497	9.56375		0.43625	9.50090			31
30	8.54147	0.03132		9.96868	9.59540		0.40460	9.56408		0.43592	9.50072			30
1	8.54213	0.03137		9.96863	9.59577		0.40423	9.56440		0.43560	9.50053			29
2	8.54280	0.03142		9.96858	9.59614		0.40386	9.56472		0.43528	9.50034			28
3	8.54346	0.03147		9.96853	9.59651		0.40349	9.56504		0.43496	9.50016			27
4	8.54413	0.03152		9.96848	9.59688		0.40312	9.56536		0.43464	9.49997			26
5	8.54479	0.03157		9.96843	9.59725		0.40275	9.56568		0.43432	9.49979			25
6	8.54545	0.03162		9.96838	9.59762		0.40238	9.56599		0.43401	9.49960			24
7	8.54611	0.03167		9.96833	9.59799		0.40201	9.56631		0.43369	9.49942			23
8	8.54678	0.03172		9.96828	9.59835		0.40165	9.56663		0.43337	9.49923			22
9	8.54744	0.03177		9.96823	9.59872		0.40128	9.56695		0.43305	9.49904			21
40	8.54810	0.03182		9.96818	9.59909		0.40091	9.56727		0.43273	9.49886			20
1	8.54876	0.03187		9.96813	9.59946		0.40054	9.56759		0.43241	9.49867			19
2	8.54942	0.03192		9.96808	9.59983		0.40017	9.56790		0.43210	9.49848			18
3	8.55008	0.03197		9.96803	9.60019		0.39981	9.56822		0.43178	9.49830			17
4	8.55073	0.03202		9.96798	9.60056		0.39944	9.56854		0.43146	9.49811			16
5	8.55139	0.03207		9.96793	9.60093		0.39907	9.56886		0.43114	9.49793			15
6	8.55205	0.03212		9.96788	9.60130		0.39870	9.56917		0.43083	9.49774			14
7	8.55271	0.03217		9.96783	9.60166		0.39834	9.56949		0.43051	9.49755			13
8	8.55336	0.03222		9.96778	9.60203		0.39797	9.56980		0.43020	9.49737			12
9	8.55402	0.03228		9.96772	9.60240		0.39760	9.57012		0.42988	9.49718			11
50	8.55467	0.03233		9.96767	9.60276		0.39724	9.57044		0.42956	9.49699			10
1	8.55533	0.03238		9.96762	9.60313		0.39687	9.57075		0.42925	9.49681			9
2	8.55598	0.03243		9.96757	9.60349		0.39651	9.57107		0.42893	9.49662			8
3	8.55664	0.03248		9.96752	9.60386		0.39614	9.57138		0.42862	9.49643			7
4	8.55729	0.03253		9.96747	9.60422		0.39578	9.57169		0.42831	9.49625			6
5	8.55794	0.03258		9.96742	9.60459		0.39541	9.57201		0.42799	9.49606			5
6	8.55859	0.03263		9.96737	9.60495		0.39505	9.57232		0.42768	9.49587			4
7	8.55925	0.03268		9.96732	9.60532		0.39468	9.57264		0.42736	9.49568			3
8	8.55990	0.03273		9.96727	9.60568		0.39432	9.57295		0.42705	9.49550			2
9	8.56055	0.03278		9.96722	9.60605		0.39395	9.57326		0.42674	9.49531			1
60	8.56120	0.03283		9.96717	9.60641		0.39359	9.57358		0.42642	9.49512			0
67														
.1	7	.5	34											
.2	13	.6	40											
.3	20	.7	47											
.4	27	.8	54											
		.9	60											

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

22°		22°									19		10
		SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1 2 .2 4 .3 6 .4 8	
0'	8.56120	0.03284			9.96717	9.60641		0.39359	9.57358		0.42642	9.49512	60'
1	8.56185	0.03289			9.96711	9.60677		0.39323	9.57389		0.42611	9.49494	59
2	8.56250	0.03294			9.96706	9.60714		0.39286	9.57420		0.42580	9.49475	58
3	8.56314	0.03299			9.96701	9.60750		0.39250	9.57451		0.42549	9.49456	57
4	8.56379	0.03304			9.96696	9.60786		0.39214	9.57482		0.42518	9.49437	56
5	8.56444	0.03309			9.96691	9.60823		0.39177	9.57514		0.42486	9.49419	55
6	8.56509	0.03314			9.96686	9.60859		0.39141	9.57545		0.42455	9.49400	54
7	8.56573	0.03319			9.96681	9.60895		0.39105	9.57576		0.42424	9.49381	53
8	8.56638	0.03324			9.96676	9.60931		0.39069	9.57607		0.42393	9.49362	52
9	8.56703	0.03330			9.96670	9.60967		0.39033	9.57638		0.42362	9.49344	51
10	8.56767	0.03335			9.96665	9.61004		0.38996	9.57669		0.42331	9.49325	50
1	8.56832	0.03340			9.96660	9.61040		0.38960	9.57700		0.42300	9.49306	49
2	8.56896	0.03345			9.96655	9.61076		0.38924	9.57731		0.42269	9.49287	48
3	8.56960	0.03350			9.96650	9.61112		0.38888	9.57762		0.42238	9.49268	47
4	8.57025	0.03355			9.96645	9.61148		0.38852	9.57793		0.42207	9.49250	46
5	8.57089	0.03360			9.96640	9.61184		0.38816	9.57824		0.42176	9.49231	45
6	8.57153	0.03365			9.96634	9.61220		0.38780	9.57854		0.42146	9.49212	44
7	8.57217	0.03371			9.96629	9.61256		0.38744	9.57885		0.42115	9.49193	43
8	8.57281	0.03376			9.96624	9.61292		0.38708	9.57916		0.42084	9.49174	42
9	8.57346	0.03381			9.96619	9.61328		0.38672	9.57947		0.42053	9.49155	41
20	8.57410	0.03387			9.96614	9.61364		0.38636	9.57978		0.42022	9.49137	40
1	8.57474	0.03392			9.96608	9.61400		0.38600	9.58008		0.41992	9.49118	39
2	8.57537	0.03397			9.96603	9.61436		0.38564	9.58039		0.41961	9.49099	38
3	8.57601	0.03402			9.96598	9.61472		0.38528	9.58070		0.41930	9.49080	37
4	8.57665	0.03407			9.96593	9.61508		0.38492	9.58101		0.41899	9.49061	36
5	8.57729	0.03412			9.96588	9.61544		0.38456	9.58131		0.41869	9.49042	35
6	8.57793	0.03418			9.96582	9.61579		0.38421	9.58162		0.41838	9.49023	34
7	8.57856	0.03423	5		9.96577	9.61615	35	0.38385	9.58192	30	0.41808	9.49004	33
8	8.57920	0.03428	.11		9.96572	9.61651	.1 4	0.38349	9.58223	.1 3	0.41777	9.48986	32
9	8.57984	0.03433	.21		9.96567	9.61687	.2 7	0.38313	9.58253	.2 6	0.41747	9.48967	31
30	8.58047	0.03438	.32				.3 11			.3 9			
1	8.58111	0.03444	.42		9.96562	9.61722	.4 14	0.38278	9.58284	.4 12	0.41716	9.48948	30
2	8.58174	0.03449	.53		9.96556	9.61758	.5 18	0.38242	9.58314	.5 15	0.41686	9.48929	29
3	8.58237	0.03454	.63		9.96551	9.61794	.6 21	0.38206	9.58345	.6 18	0.41655	9.48910	28
4	8.58301	0.03459	.74		9.96546	9.61830	.7 25	0.38170	9.58375	.7 21	0.41625	9.48891	27
5	8.58364	0.03465	.84		9.96541	9.61865	.8 28	0.38135	9.58406	.8 24	0.41594	9.48872	26
6	8.58427	0.03470	.95		9.96535	9.61901	.9 32	0.38099	9.58436	.9 27	0.41564	9.48853	25
7	8.58491	0.03475			9.96530	9.61936		0.38064	9.58467		0.41533	9.48834	24
8	8.58554	0.03480			9.96525	9.61972		0.38028	9.58497		0.41503	9.48815	23
9	8.58617	0.03486			9.96520	9.62008		0.37992	9.58527		0.41473	9.48796	22
					9.96514	9.62043		0.37957	9.58557		0.41443	9.48777	21
40	8.58680	0.03491			9.96509	9.62079		0.37921	9.58588		0.41412	9.48758	20
1	8.58743	0.03496			9.96504	9.62114		0.37886	9.58618		0.41382	9.48739	19
2	8.58806	0.03502			9.96498	9.62150		0.37850	9.58648		0.41352	9.48720	18
3	8.58869	0.03507			9.96493	9.62185		0.37815	9.58678		0.41322	9.48701	17
4	8.58932	0.03512			9.96488	9.62221		0.37779	9.58709		0.41291	9.48682	16
5	8.58994	0.03517			9.96483	9.62256		0.37744	9.58739		0.41261	9.48663	15
6	8.59057	0.03523			9.96477	9.62291		0.37709	9.58769		0.41231	9.48645	14
7	8.59120	0.03528			9.96472	9.62327		0.37673	9.58799		0.41201	9.48626	13
8	8.59183	0.03533			9.96467	9.62362		0.37638	9.58829		0.41171	9.48606	12
9	8.59245	0.03539			9.96461	9.62398		0.37602	9.58859		0.41141	9.48587	11
50	8.59308	0.03544			9.96456	9.62433		0.37567	9.58889		0.41111	9.48568	10
1	8.59370	0.03549			9.96451	9.62468		0.37532	9.58919		0.41081	9.48549	9
2	8.59433	0.03555			9.96446	9.62504		0.37496	9.58949		0.41051	9.48530	8
3	8.59495	0.03560			9.96440	9.62539		0.37461	9.58979		0.41021	9.48511	7
4	8.59558	0.03565			9.96435	9.62574		0.37426	9.59009		0.40991	9.48492	6
5	8.59620	0.03571			9.96429	9.62609		0.37391	9.59039		0.40961	9.48473	5
6	8.59682	0.03576			9.96424	9.62645		0.37355	9.59069		0.40931	9.48454	4
7	8.59745	0.03581			9.96419	9.62680		0.37320	9.59098		0.40902	9.48435	3
8	8.59807	0.03587			9.96413	9.62715		0.37285	9.59128		0.40872	9.48416	2
9	8.59869	0.03592			9.96408	9.62750		0.37250	9.59158		0.40842	9.48397	1
60	8.59931	0.03597			9.96403	9.62785		0.37215	9.59188		0.40812	9.48378	0
64		COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV	67°	
.1	8												
.2	13												
.3	19												
.4	26												

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

23°	23°										19			
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4
0'	8.59931	0.03597		9.96403	9.62785		0.37215	9.59188		0.40812	9.48378			60'
1	8.59993	0.03608		9.96397	9.62820		0.37180	9.59218		0.40782	9.48359			59
2	8.60055	0.03603		9.96392	9.62855		0.37145	9.59247		0.40753	9.48340			58
3	8.60117	0.03614		9.96387	9.62890		0.37110	9.59277		0.40723	9.48321			57
4	8.60179	0.03619		9.96381	9.62926		0.37074	9.59307		0.40693	9.48301			56
5	8.60241	0.03624		9.96376	9.62961		0.37039	9.59336		0.40664	9.48282			55
6	8.60303	0.03630		9.96370	9.62996		0.37004	9.59366		0.40634	9.48263			54
7	8.60365	0.03635		9.96365	9.63031		0.36969	9.59396		0.40604	9.48244			53
8	8.60426	0.03640		9.96360	9.63066		0.36934	9.59425		0.40575	9.48225			52
9	8.60488	0.03646		9.96354	9.63101		0.36899	9.59455		0.40545	9.48206			51
10	8.60550	0.03651		9.96349	9.63135		0.36865	9.59484		0.40516	9.48187			50
1	8.60611	0.03657		9.96343	9.63170		0.36830	9.59514		0.40486	9.48168			49
2	8.60673	0.03662		9.96338	9.63205		0.36795	9.59543		0.40457	9.48148			48
3	8.60734	0.03667		9.96333	9.63240		0.36760	9.59573		0.40427	9.48129			47
4	8.60796	0.03673		9.96327	9.63275		0.36725	9.59602		0.40398	9.48110			46
5	8.60857	0.03678		9.96322	9.63310		0.36690	9.59632		0.40368	9.48091			45
6	8.60919	0.03684		9.96316	9.63345		0.36655	9.59661		0.40339	9.48072			44
7	8.60980	0.03689		9.96311	9.63379		0.36621	9.59690		0.40310	9.48053			43
8	8.61041	0.03695		9.96305	9.63414		0.36586	9.59720		0.40280	9.48033			42
9	8.61103	0.03700		9.96300	9.63449		0.36551	9.59749		0.40251	9.48014			41
20	8.61164	0.03706		9.96294	9.63484		0.36516	9.59778		0.40222	9.47995			40
1	8.61225	0.03711		9.96289	9.63518		0.36482	9.59808		0.40192	9.47976			39
2	8.61286	0.03716		9.96284	9.63553		0.36447	9.59837		0.40163	9.47957			38
3	8.61347	0.03722		9.96278	9.63588		0.36412	9.59866		0.40134	9.47937			37
4	8.61408	0.03727		9.96273	9.63623		0.36377	9.59895		0.40105	9.47918			36
5	8.61469	0.03733		9.96267	9.63657		0.36343	9.59924		0.40076	9.47899			35
6	8.61530	0.03738		9.96262	9.63692		0.36308	9.59954		0.40046	9.47880			34
7	8.61591	0.03744	5	9.96256	9.63726	34	0.36274	9.59983	29	0.40017	9.47860			33
8	8.61652	0.03749	.11	9.96251	9.63761	.1 3	0.36239	9.60012	.1 3	0.39988	9.47841			32
9	8.61713	0.03755	.21	9.96245	9.63796	.2 7	0.36204	9.60041	.2 6	0.39959	9.47822			31
30	8.61773	0.03760	.32			.3 10			.3 9					
1	8.61834	0.03766	.42	9.96240	9.63830	.4 14	0.36170	9.60070	.4 12	0.39930	9.47803			30
2	8.61895	0.03771	.53	9.96234	9.63865	.5 17	0.36135	9.60099	.5 15	0.39901	9.47783			29
3	8.61956	0.03777	.63	9.96229	9.63899	.6 20	0.36101	9.60128	.6 17	0.39872	9.47764			28
4	8.62016	0.03782	.74	9.96223	9.63934	.7 24	0.36066	9.60157	.7 20	0.39843	9.47745			27
5	8.62076	0.03788	.84	9.96218	9.63968	.8 27	0.36032	9.60186	.8 23	0.39814	9.47725			26
6	8.62137	0.03793	.95	9.96212	9.64003	.9 31	0.35997	9.60215	.9 26	0.39785	9.47706			25
7	8.62197	0.03799		9.96207	9.64037		0.35963	9.60244		0.39756	9.47687			24
8	8.62258	0.03804		9.96201	9.64072		0.35928	9.60273		0.39727	9.47668			23
9	8.62318	0.03810		9.96196	9.64106		0.35894	9.60302		0.39698	9.47648			22
40	8.62378	0.03815		9.96190	9.64140		0.35860	9.60331		0.39669	9.47629			21
1	8.62439	0.03821		9.96185	9.64175		0.35825	9.60359		0.39641	9.47610			20
2	8.62499	0.03826		9.96179	9.64209		0.35791	9.60388		0.39612	9.47590			19
3	8.62559	0.03832		9.96174	9.64243		0.35757	9.60417		0.39583	9.47571			18
4	8.62619	0.03838		9.96168	9.64278		0.35722	9.60446		0.39554	9.47552			17
5	8.62679	0.03843		9.96162	9.64312		0.35688	9.60474		0.39526	9.47532			16
6	8.62739	0.03849		9.96157	9.64346		0.35654	9.60503		0.39497	9.47513			15
7	8.62799	0.03854		9.96151	9.64381		0.35619	9.60532		0.39468	9.47493			14
8	8.62859	0.03859		9.96146	9.64415		0.35585	9.60561		0.39439	9.47474			13
9	8.62919	0.03865		9.96140	9.64449		0.35551	9.60589		0.39411	9.47455			12
50	8.62979	0.03871		9.96135	9.64483		0.35517	9.60618		0.39382	9.47435			11
1	8.63039	0.03877		9.96129	9.64517		0.35483	9.60646		0.39354	9.47416			10
2	8.63099	0.03882		9.96123	9.64552		0.35448	9.60675		0.39325	9.47397			9
3	8.63159	0.03888		9.96118	9.64586		0.35414	9.60704		0.39296	9.47377			8
4	8.63218	0.03893		9.96112	9.64620		0.35380	9.60732		0.39268	9.47358			7
5	8.63278	0.03899		9.96107	9.64654		0.35346	9.60761		0.39239	9.47338			6
6	8.63338	0.03905		9.96101	9.64688		0.35312	9.60789		0.39211	9.47319			5
7	8.63397	0.03910		9.96095	9.64722		0.35278	9.60818		0.39182	9.47299			4
8	8.63457	0.03916		9.96090	9.64756		0.35244	9.60846		0.39154	9.47280			3
9	8.63516	0.03921		9.96084	9.64790		0.35210	9.60875		0.39125	9.47261			2
60	8.63576	0.03927		9.96079	9.64824		0.35176	9.60903		0.39097	9.47241			1
				9.96073	9.64858		0.35142	9.60931		0.39069	9.47222			0
61	.5 31	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV			66°
.1	6													
.2	12													
.3	18													
.4	24													

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

24°	24°										20		60'	
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2		
0'	8.63576	0.03927		9.96073	9.64858		0.35142	9.60931		0.39069			60'	
1	8.63635	0.03933		9.96067	9.64892		0.35108	9.60960		0.39040			59	
2	8.63695	0.03938		9.96062	9.64926		0.35074	9.60988		0.39012			58	
3	8.63754	0.03944		9.96056	9.64960		0.35040	9.61016		0.38984			57	
4	8.63813	0.03950		9.96050	9.64994		0.35006	9.61045		0.38955			56	
5	8.63872	0.03955		9.96045	9.65028		0.34972	9.61073		0.38927			55	
6	8.63932	0.03961		9.96039	9.65062		0.34938	9.61101		0.38899			54	
7	8.63991	0.03966		9.96034	9.65096		0.34904	9.61129		0.38871			53	
8	8.64050	0.03972		9.96028	9.65130		0.34870	9.61158		0.38842			52	
9	8.64109	0.03978		9.96022	9.65164		0.34836	9.61186		0.38814			51	
10	8.64168	0.03983		9.96017	9.65197		0.34803	9.61214		0.38786			50	
1	8.64227	0.03989		9.96011	9.65231		0.34769	9.61242		0.38758			49	
2	8.64286	0.03995		9.96005	9.65265		0.34735	9.61270		0.38730			48	
3	8.64345	0.04000		9.96000	9.65299		0.34701	9.61298		0.38702			47	
4	8.64404	0.04006		9.95994	9.65333		0.34667	9.61326		0.38674			46	
5	8.64463	0.04012		9.95988	9.65366		0.34634	9.61354		0.38646			45	
6	8.64521	0.04018		9.95982	9.65400		0.34600	9.61382		0.38618			44	
7	8.64580	0.04023		9.95977	9.65434		0.34566	9.61411		0.38589			43	
8	8.64639	0.04029		9.95971	9.65467		0.34533	9.61438		0.38562			42	
9	8.64697	0.04035		9.95965	9.65501		0.34499	9.61466		0.38534			41	
20	8.64756	0.04040		9.95960	9.65535		0.34465	9.61494		0.38506			40	
1	8.64815	0.04046		9.95954	9.65568		0.34432	9.61522		0.38478			39	
2	8.64873	0.04052		9.95948	9.65602		0.34398	9.61550		0.38450			38	
3	8.64932	0.04058		9.95942	9.65636		0.34364	9.61578		0.38422			37	
4	8.64990	0.04063		9.95937	9.65669		0.34331	9.61606		0.38394			36	
5	8.65048	0.04069		9.95931	9.65703		0.34297	9.61634		0.38366			35	
6	8.65107	0.04075		9.95925	9.65736		0.34264	9.61662		0.38338			34	
7	8.65165	0.04080	6	9.95920	9.65770	33	0.34230	9.61689	27	0.38311			33	
8	8.65223	0.04086	.11	9.95914	9.65803	.1 3	0.34197	9.61717	.1 3	0.38283			32	
9	8.65282	0.04092	.21	9.95908	9.65837	.2 7	0.34163	9.61745	.2 5	0.38255			31	
30	8.65340	0.04098	.32			.3 10			.3 8					
1	8.65398	0.04103	.42	9.95902	9.65870	.4 13	0.34130	9.61773	.4 11	0.38227			30	
2	8.65456	0.04109	.53	9.95897	9.65904	.5 17	0.34096	9.61800	.5 14	0.38200			29	
3	8.65514	0.04115	.64	9.95891	9.65937	.6 20	0.34063	9.61828	.6 16	0.38172			28	
4	8.65572	0.04121	.74	9.95885	9.65971	.7 23	0.34029	9.61856	.7 19	0.38144			27	
5	8.65630	0.04127	.85	9.95879	9.66004	.8 26	0.33996	9.61883	.8 22	0.38117			26	
6	8.65688	0.04132	.95	9.95873	9.66038	.9 30	0.33962	9.61911	.9 24	0.38089			25	
7	8.65746	0.04138		9.95868	9.66071		0.33929	9.61939		0.38061			24	
8	8.65804	0.04144		9.95862	9.66104		0.33895	9.61966		0.38034			23	
9	8.65862	0.04150		9.95856	9.66138		0.33862	9.61994		0.38006			22	
40	8.65920	0.04156		9.95850	9.66171		0.33829	9.62021		0.37979			21	
1	8.65977	0.04161		9.95845	9.66204		0.33796	9.62049		0.37951			20	
2	8.66035	0.04167		9.95839	9.66238		0.33762	9.62076		0.37924			19	
3	8.66093	0.04173		9.95833	9.66271		0.33729	9.62104		0.37896			18	
4	8.66151	0.04179		9.95827	9.66304		0.33696	9.62131		0.37869			17	
5	8.66208	0.04185		9.95821	9.66337		0.33663	9.62159		0.37841			16	
6	8.66266	0.04190		9.95815	9.66371		0.33629	9.62186		0.37814			15	
7	8.66323	0.04196		9.95810	9.66404		0.33596	9.62214		0.37786			14	
8	8.66381	0.04202		9.95804	9.66437		0.33563	9.62241		0.37759			13	
9	8.66438	0.04208		9.95798	9.66470		0.33530	9.62268		0.37732			12	
50	8.66496	0.04214		9.95792	9.66503		0.33497	9.62296		0.37704			11	
1	8.66553	0.04220		9.95786	9.66537		0.33463	9.62323		0.37677			10	
2	8.66610	0.04225		9.95780	9.66570		0.33430	9.62350		0.37650			9	
3	8.66667	0.04231		9.95775	9.66603		0.33397	9.62377		0.37623			8	
4	8.66725	0.04237		9.95769	9.66636		0.33364	9.62405		0.37595			7	
5	8.66782	0.04243		9.95763	9.66669		0.33331	9.62432		0.37568			6	
6	8.66839	0.04249		9.95757	9.66702		0.33298	9.62459		0.37541			5	
7	8.66896	0.04255		9.95751	9.66735		0.33265	9.62486		0.37514			4	
8	8.66953	0.04261		9.95745	9.66768		0.33232	9.62513		0.37487			3	
9	8.67010	0.04267		9.95739	9.66801		0.33199	9.62541		0.37459			2	
60	8.67067	0.04272		9.95733	9.66834		0.33166	9.62568		0.37432			1	
				9.95728	9.66867		0.33133	9.62595		0.37405			0	
58	.1 6	.5 29		COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV	65°
.1	12	.6 35												
.2	17	.7 41												
.3	23	.8 48												
.4		.9 52												

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

25°	25°										20			
SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.5	10	
0'	8.67067	0.04272	9.95728	9.66867		0.33133	9.62595		0.37405	9.46043			60'	
1	8.67124	0.04278	9.95722	9.66900		0.33100	9.62622		0.37378	9.46023			59	
2	8.67181	0.04284	9.95716	9.66933		0.33067	9.62649		0.37351	9.46004			58	
3	8.67238	0.04290	9.95710	9.66966		0.33034	9.62676		0.37324	9.45984			57	
4	8.67295	0.04296	9.95704	9.66999		0.33001	9.62703		0.37297	9.45964			56	
5	8.67352	0.04302	9.95698	9.67032		0.32968	9.62730		0.37270	9.45944			55	
6	8.67409	0.04308	9.95692	9.67065		0.32935	9.62757		0.37243	9.45924			54	
7	8.67465	0.04314	9.95686	9.67098		0.32902	9.62784		0.37216	9.45904			53	
8	8.67522	0.04320	9.95680	9.67131		0.32869	9.62811		0.37189	9.45884			52	
9	8.67579	0.04326	9.95674	9.67163		0.32837	9.62838		0.37162	9.45865			51	
10	8.67635	0.04332	9.95668	9.67196		0.32804	9.62865		0.37135	9.45845			50	
1	8.67692	0.04337	9.95663	9.67229		0.32771	9.62892		0.37108	9.45825			49	
2	8.67748	0.04343	9.95657	9.67262		0.32738	9.62918		0.37082	9.45805			48	
3	8.67805	0.04349	9.95651	9.67295		0.32705	9.62945		0.37055	9.45786			47	
4	8.67861	0.04355	9.95645	9.67327		0.32673	9.62972		0.37028	9.45766			46	
5	8.67918	0.04361	9.95639	9.67360		0.32640	9.62999		0.37001	9.45746			45	
6	8.67974	0.04367	9.95633	9.67393		0.32607	9.63026		0.36974	9.45726			44	
7	8.68030	0.04373	9.95627	9.67426		0.32574	9.63052		0.36948	9.45706			43	
8	8.68087	0.04379	9.95621	9.67458		0.32542	9.63079		0.36921	9.45686			42	
9	8.68143	0.04385	9.95615	9.67491		0.32509	9.63106		0.36894	9.45666			41	
20	8.68199	0.04391	9.95609	9.67524		0.32476	9.63133		0.36867	9.45646			40	
1	8.68255	0.04397	9.95603	9.67556		0.32444	9.63159		0.36841	9.45625			39	
2	8.68312	0.04403	9.95597	9.67589		0.32411	9.63186		0.36814	9.45605			38	
3	8.68368	0.04409	9.95591	9.67622		0.32378	9.63213		0.36787	9.45585			37	
4	8.68424	0.04415	9.95585	9.67654		0.32346	9.63239		0.36761	9.45565			36	
5	8.68480	0.04421	9.95579	9.67687		0.32313	9.63266		0.36734	9.45545			35	
6	8.68536	0.04427	9.95573	9.67719		0.32281	9.63292		0.36708	9.45525			34	
7	8.68592	0.04433	9.95567	9.67752	32	0.32248	9.63319	26	0.36681	9.45505			33	
8	8.68648	0.04439	9.95561	9.67785	.1 3	0.32215	9.63345	.1 3	0.36655	9.45485			32	
9	8.68704	0.04445	9.95555	9.67817	.2 6	0.32183	9.63372	.2 5	0.36628	9.45465			31	
30	8.68759	0.04451	9.95549	9.67850	.3 10			.3 8						
1	8.68815	0.04457	9.95543	9.67882	.4 13	0.32150	9.63398	.4 10	0.36602	9.45445			30	
2	8.68871	0.04463	9.95537	9.67915	.5 16	0.32118	9.63425	.5 13	0.36575	9.45425			29	
3	8.68927	0.04469	9.95531	9.67947	.6 19	0.32086	9.63451	.6 16	0.36549	9.45405			28	
4	8.68982	0.04475	9.95525	9.67980	.7 22	0.32053	9.63478	.7 18	0.36522	9.45385			27	
5	8.69038	0.04481	9.95519	9.68012	.8 26	0.32020	9.63504	.8 21	0.36496	9.45365			26	
6	8.69094	0.04487	9.95513	9.68044	.9 29	0.31988	9.63531	.9 23	0.36469	9.45345			25	
7	8.69149	0.04493	9.95507	9.68077		0.31956	9.63557		0.36443	9.45325			24	
8	8.69205	0.04500	9.95500	9.68109		0.31923	9.63583		0.36417	9.45305			23	
9	8.69260	0.04506	9.95494	9.68142		0.31891	9.63610		0.36390	9.45285			22	
						0.31858	9.63636		0.36364	9.45265			21	
40	8.69316	0.04512	9.95488	9.68174		0.31826	9.63662		0.36338	9.45245			20	
1	8.69371	0.04518	9.95482	9.68206		0.31794	9.63689		0.36311	9.45225			19	
2	8.69427	0.04524	9.95476	9.68239		0.31761	9.63715		0.36285	9.45205			18	
3	8.69482	0.04530	9.95470	9.68271		0.31729	9.63741		0.36259	9.45185			17	
4	8.69537	0.04536	9.95464	9.68303		0.31697	9.63767		0.36233	9.45165			16	
5	8.69593	0.04542	9.95458	9.68336		0.31664	9.63793		0.36207	9.45144			15	
6	8.69648	0.04548	9.95452	9.68368		0.31632	9.63820		0.36180	9.45124			14	
7	8.69703	0.04554	9.95446	9.68400		0.31600	9.63846		0.36154	9.45104			13	
8	8.69758	0.04560	9.95440	9.68432		0.31568	9.63872		0.36128	9.45084			12	
9	8.69813	0.04566	9.95434	9.68465		0.31535	9.63898		0.36102	9.45064			11	
50	8.69869	0.04573	9.95427	9.68497		0.31503	9.63924		0.36076	9.45044			10	
1	8.69924	0.04579	9.95421	9.68529		0.31471	9.63950		0.36040	9.45024			9	
2	8.69979	0.04585	9.95415	9.68561		0.31439	9.63976		0.36024	9.45003			8	
3	8.70034	0.04591	9.95409	9.68593		0.31407	9.64002		0.35998	9.44983			7	
4	8.70089	0.04597	9.95403	9.68626		0.31374	9.64028		0.35972	9.44963			6	
5	8.70144	0.04603	9.95397	9.68658		0.31342	9.64054		0.35946	9.44943			5	
6	8.70198	0.04609	9.95391	9.68690		0.31310	9.64080		0.35910	9.44923			4	
7	8.70253	0.04616	9.95384	9.68722		0.31278	9.64106		0.35894	9.44903			3	
8	8.70308	0.04622	9.95378	9.68754		0.31246	9.64132		0.35868	9.44882			2	
9	8.70363	0.04628	9.95372	9.68786		0.31214	9.64158		0.35842	9.44862			1	
60	8.70418	0.04634	9.95366	9.68818		0.31182	9.64184		0.35816	9.44842			0	
56	.5 28	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV		64°	
.1	6													
.2	11													
.3	17													
.4	22													

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

26°		26°									20		5	10
SEM V		SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	2	.5	10
0'	8.70418	0.04634		9.95366	9.68818		0.31182	9.64184		0.35816	9.44842			60'
1	8.70472	0.04640		9.95360	9.68850		0.31140	9.64210		0.35790	9.44822			59
2	8.70527	0.04646		9.95354	9.68882		0.31118	9.64236		0.35764	9.44801			58
3	8.70582	0.04652		9.95348	9.68914		0.31086	9.64262		0.35738	9.44781			57
4	8.70636	0.04659		9.95341	9.68946		0.31054	9.64288		0.35712	9.44761			56
5	8.70691	0.04665		9.95335	9.68978		0.31022	9.64313		0.35687	9.44741			55
6	8.70745	0.04671		9.95329	9.69010		0.30980	9.64339		0.35661	9.44720			54
7	8.70800	0.04677		9.95323	9.69042		0.30958	9.64365		0.35635	9.44700			53
8	8.70854	0.04683		9.95317	9.69074		0.30926	9.64391		0.35609	9.44680			52
9	8.70909	0.04690		9.95310	9.69106		0.30894	9.64417		0.35583	9.44660			51
10	8.70963	0.04696		9.95304	9.69138		0.30862	9.64442		0.35558	9.44639			50
1	8.71017	0.04702		9.95298	9.69170		0.30830	9.64468		0.35532	9.44619			49
2	8.71072	0.04708		9.95292	9.69202		0.30798	9.64494		0.35506	9.44599			48
3	8.71126	0.04714		9.95286	9.69234		0.30766	9.64519		0.35481	9.44579			47
4	8.71180	0.04721		9.95279	9.69266		0.30734	9.64545		0.35455	9.44558			46
5	8.71234	0.04727		9.95273	9.69297		0.30703	9.64571		0.35429	9.44538			45
6	8.71288	0.04733		9.95267	9.69329		0.30671	9.64596		0.35404	9.44518			44
7	8.71343	0.04739		9.95261	9.69361		0.30639	9.64622		0.35378	9.44497			43
8	8.71397	0.04746		9.95254	9.69393		0.30607	9.64647		0.35353	9.44477			42
9	8.71451	0.04752		9.95248	9.69425		0.30575	9.64673		0.35327	9.44457			41
20	8.71505	0.04758		9.95242	9.69457		0.30543	9.64698		0.35302	9.44436			40
1	8.71559	0.04764		9.95236	9.69488		0.30512	9.64724		0.35276	9.44416			39
2	8.71613	0.04771		9.95229	9.69520		0.30480	9.64749		0.35251	9.44396			38
3	8.71667	0.04777		9.95223	9.69552		0.30448	9.64775		0.35225	9.44375			37
4	8.71721	0.04783		9.95217	9.69584		0.30416	9.64800		0.35200	9.44355			36
5	8.71774	0.04789		9.95211	9.69615		0.30385	9.64826		0.35174	9.44334			35
6	8.71828	0.04796		9.95204	9.69647		0.30353	9.64851		0.35149	9.44314			34
7	8.71882	0.04802	6	9.95198	9.69679	31	0.30321	9.64877	25	0.35123	9.44294			33
8	8.71936	0.04808	.11	9.95192	9.69710	.1 3	0.30290	9.64902	.1 3	0.35098	9.44273			32
9	8.71989	0.04815	.21	9.95185	9.69742	.2 6	0.30258	9.64927	.2 6	0.35073	9.44253			31
			.32			.3 9			.3 8					
30	8.72043	0.04821	.42	9.95179	9.69774	.4 12	0.30226	9.64953	.4 10	0.35047	9.44232			30
1	8.72097	0.04827	.53	9.95173	9.69805	.5 16	0.30195	9.64978	.5 13	0.35022	9.44212			29
2	8.72150	0.04833	.64	9.95167	9.69837	.6 19	0.30163	9.65003	.6 15	0.34997	9.44192			28
3	8.72204	0.04840	.74	9.95160	9.69868	.7 22	0.30132	9.65029	.7 18	0.34971	9.44171			27
4	8.72257	0.04846	.85	9.95154	9.69900	.8 25	0.30100	9.65054	.8 20	0.34946	9.44151			26
5	8.72311	0.04852	.95	9.95148	9.69932	.9 28	0.30068	9.65079	.9 23	0.34921	9.44130			25
6	8.72364	0.04859		9.95141	9.69963		0.30037	9.65104		0.34896	9.44110			24
7	8.72418	0.04865		9.95135	9.69995		0.30005	9.65130		0.34870	9.44089			23
8	8.72471	0.04871		9.95129	9.70026		0.29974	9.65155		0.34845	9.44069			22
9	8.72524	0.04878		9.95122	9.70058		0.29942	9.65180		0.34820	9.44048			21
40	8.72578	0.04884		9.95116	9.70089		0.29911	9.65205		0.34795	9.44028			20
1	8.72631	0.04890		9.95110	9.70121		0.29879	9.65230		0.34770	9.44007			19
2	8.72684	0.04897		9.95103	9.70152		0.29848	9.65255		0.34745	9.43987			18
3	8.72738	0.04903		9.95097	9.70184		0.29816	9.65281		0.34719	9.43966			17
4	8.72791	0.04910		9.95090	9.70215		0.29785	9.65306		0.34694	9.43946			16
5	8.72844	0.04916		9.95084	9.70247		0.29753	9.65330		0.34669	9.43925			15
6	8.72897	0.04922		9.95078	9.70278		0.29722	9.65355		0.34644	9.43905			14
7	8.72950	0.04929		9.95071	9.70309		0.29691	9.65380		0.34619	9.43884			13
8	8.73003	0.04935		9.95065	9.70341		0.29659	9.65406		0.34594	9.43864			12
9	8.73056	0.04941		9.95059	9.70372		0.29628	9.65431		0.34569	9.43843			11
50	8.73109	0.04948		9.95052	9.70404		0.29596	9.65456		0.34544	9.43823			10
1	8.73162	0.04954		9.95046	9.70435		0.29565	9.65481		0.34519	9.43802			9
2	8.73215	0.04961		9.95039	9.70466		0.29534	9.65506		0.34494	9.43782			8
3	8.73268	0.04967		9.95033	9.70498		0.29502	9.65531		0.34469	9.43761			7
4	8.73321	0.04973		9.95027	9.70529		0.29471	9.65556		0.34444	9.43741			6
5	8.73374	0.04980		9.95020	9.70560		0.29440	9.65581		0.34420	9.43720			5
6	8.73426	0.04986		9.95014	9.70592		0.29408	9.65606		0.34395	9.43699			4
7	8.73479	0.04993		9.95007	9.70623		0.29377	9.65631		0.34370	9.43679			3
8	8.73532	0.04999		9.95001	9.70654		0.29346	9.65655		0.34345	9.43658			2
9	8.73584	0.05005		9.94995	9.70685		0.29315	9.65680		0.34320	9.43638			1
60	8.73637	0.05012		9.94988	9.70717		0.29283	9.65705		0.34295	9.43617			0
54		.5	27											
.1	5	.6	32											
.2	11	.7	38											
.3	16	.8	43											
.4	22	.9	48											
63°												63°		
COSEC		PP		SEN	COTG	PP	TG	COS	PP	SEC	SEM V			

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

27°											21			
											.1	.2	.3	.4
											.5	.6	.7	.8
											.9	.10	.11	.12
SEM V	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC					
0'	8.73637	0.05012	9.94988	9.70717		0.29283	9.65705		0.34295	9.43617				60'
1	8.73690	0.05018	9.94982	9.70748		0.29252	9.65729		0.34271	9.43596				59
2	8.73742	0.05025	9.94975	9.70779		0.29221	9.65754		0.34246	9.43576				58
3	8.73795	0.05031	9.94969	9.70810		0.29190	9.65779		0.34221	9.43555				57
4	8.73847	0.05038	9.94962	9.70841		0.29159	9.65804		0.34196	9.43534				56
5	8.73900	0.05044	9.94956	9.70873		0.29127	9.65828		0.34172	9.43514				55
6	8.73952	0.05051	9.94949	9.70904		0.29096	9.65853		0.34147	9.43493				54
7	8.74005	0.05057	9.94943	9.70935		0.29065	9.65878		0.34122	9.43473				53
8	8.74057	0.05064	9.94936	9.70966		0.29034	9.65902		0.34098	9.43452				52
9	8.74109	0.05070	9.94930	9.70997		0.29003	9.65927		0.34073	9.43431				51
10	8.74162	0.05077	9.94923	9.71028		0.28972	9.65952		0.34048	9.43411				50
1	8.74214	0.05083	9.94917	9.71059		0.28941	9.65976		0.34024	9.43390				49
2	8.74266	0.05089	9.94911	9.71090		0.28910	9.66001		0.33999	9.43369				48
3	8.74318	0.05096	9.94904	9.71121		0.28879	9.66025		0.33975	9.43348				47
4	8.74370	0.05102	9.94898	9.71153		0.28847	9.66050		0.33950	9.43328				46
5	8.74423	0.05109	9.94891	9.71184		0.28816	9.66075		0.33925	9.43307				45
6	8.74475	0.05115	9.94885	9.71215		0.28785	9.66099		0.33901	9.43286				44
7	8.74527	0.05122	9.94878	9.71246		0.28754	9.66124		0.33876	9.43266				43
8	8.74579	0.05129	9.94871	9.71277		0.28723	9.66148		0.33852	9.43245				42
9	8.74631	0.05135	9.94865	9.71308		0.28692	9.66173		0.33827	9.43224				41
20	8.74683	0.05142	9.94858	9.71339		0.28661	9.66197		0.33803	9.43203				40
1	8.74735	0.05148	9.94852	9.71370		0.28630	9.66221		0.33779	9.43183				39
2	8.74787	0.05155	9.94845	9.71400		0.28600	9.66246		0.33754	9.43162				38
3	8.74838	0.05161	9.94839	9.71431		0.28569	9.66270		0.33730	9.43141				37
4	8.74890	0.05168	9.94832	9.71462		0.28538	9.66295		0.33705	9.43120				36
5	8.74942	0.05174	9.94826	9.71493		0.28507	9.66319		0.33681	9.43100				35
6	8.74994	0.05181	9.94819	9.71524		0.28476	9.66343		0.33657	9.43079				34
7	8.75046	0.05187	9.94813	9.71555	30	0.28445	9.66368	24	0.33632	9.43058				33
8	8.75097	0.05194	9.94806	9.71586	.1 3	0.28414	9.66392	.1 2	0.33608	9.43037				32
9	8.75149	0.05201	9.94799	9.71617	.2 6	0.28383	9.66416	.2 5	0.33584	9.43016				31
30	8.75201	0.05207	9.94793	9.71648	.3 9	0.28352	9.66441	.3 7	0.33559	9.42995				30
1	8.75252	0.05214	9.94786	9.71678	.4 12	0.28322	9.66465	.4 10	0.33535	9.42975				29
2	8.75304	0.05220	9.94780	9.71709	.5 15	0.28291	9.66489	.5 12	0.33511	9.42954				28
3	8.75356	0.05227	9.94773	9.71740	.6 18	0.28260	9.66513	.6 14	0.33487	9.42933				27
4	8.75407	0.05233	9.94767	9.71771	.7 21	0.28229	9.66537	.7 17	0.33463	9.42912				26
5	8.75458	0.05240	9.94760	9.71802	.8 24	0.28198	9.66562	.8 19	0.33438	9.42891				25
6	8.75510	0.05247	9.94753	9.71832	.9 27	0.28168	9.66586	.9 22	0.33414	9.42870				24
7	8.75561	0.05253	9.94747	9.71863		0.28137	9.66610		0.33390	9.42850				23
8	8.75613	0.05260	9.94740	9.71894		0.28106	9.66634		0.33366	9.42829				22
9	8.75664	0.05266	9.94734	9.71925		0.28075	9.66658		0.33342	9.42808				21
40	8.75715	0.05273	9.94727	9.71955		0.28045	9.66682		0.33318	9.42787				20
1	8.75767	0.05280	9.94720	9.71986		0.28014	9.66706		0.33294	9.42766				19
2	8.75818	0.05286	9.94714	9.72017		0.27983	9.66731		0.33269	9.42745				18
3	8.75869	0.05293	9.94707	9.72048		0.27952	9.66755		0.33245	9.42724				17
4	8.75920	0.05300	9.94700	9.72078		0.27922	9.66779		0.33221	9.42703				16
5	8.75971	0.05306	9.94694	9.72109		0.27891	9.66803		0.33197	9.42682				15
6	8.76023	0.05313	9.94687	9.72140		0.27860	9.66827		0.33173	9.42662				14
7	8.76074	0.05320	9.94680	9.72170		0.27830	9.66851		0.33149	9.42641				13
8	8.76125	0.05326	9.94674	9.72201		0.27799	9.66875		0.33125	9.42620				12
9	8.76176	0.05333	9.94667	9.72231		0.27769	9.66899		0.33101	9.42599				11
50	8.76227	0.05340	9.94660	9.72262		0.27738	9.66922		0.33078	9.42578				10
1	8.76278	0.05346	9.94654	9.72293		0.27707	9.66946		0.33054	9.42557				9
2	8.76329	0.05353	9.94647	9.72323		0.27677	9.66970		0.33030	9.42536				8
3	8.76380	0.05360	9.94640	9.72354		0.27646	9.66994		0.33006	9.42515				7
4	8.76430	0.05366	9.94634	9.72385		0.27616	9.67018		0.32982	9.42494				6
5	8.76481	0.05373	9.94627	9.72415		0.27585	9.67042		0.32958	9.42473				5
6	8.76532	0.05380	9.94620	9.72446		0.27555	9.67066		0.32934	9.42452				4
7	8.76583	0.05386	9.94614	9.72476		0.27524	9.67090		0.32910	9.42431				3
8	8.76634	0.05393	9.94607	9.72506		0.27494	9.67113		0.32887	9.42410				2
9	8.76684	0.05400	9.94600	9.72537		0.27463	9.67137		0.32863	9.42389				1
60	8.76735	0.05407	9.94594	9.72567		0.27433	9.67161		0.32839	9.42368				0
COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEM V	62°				

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

28°		28°									21		.5	11
											.1	2	.6	13
											.2	4	.7	15
											.3	6	.8	17
											.4	8	.9	19
SEM V		SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC				
0'	8.76735	0.05407		9.94594	9.72567		0.27433	9.67161		0.32839	9.42368	60'		
1	8.76786	0.05413		9.94587	9.72598		0.27402	9.67185		0.32815	9.42347	59		
2	8.76836	0.05420		9.94580	9.72628		0.27372	9.67208		0.32792	9.42326	58		
3	8.76887	0.05427		9.94573	9.72659		0.27341	9.67232		0.32768	9.42305	57		
4	8.76937	0.05433		9.94567	9.72689		0.27311	9.67256		0.32744	9.42284	56		
5	8.76988	0.05440		9.94560	9.72720		0.27280	9.67280		0.32720	9.42263	55		
6	8.77038	0.05447		9.94553	9.72750		0.27250	9.67303		0.32697	9.42242	54		
7	8.77089	0.05454		9.94546	9.72780		0.27220	9.67327		0.32673	9.42221	53		
8	8.77139	0.05460		9.94540	9.72811		0.27189	9.67350		0.32650	9.42199	52		
9	8.77190	0.05467		9.94533	9.72841		0.27159	9.67374		0.32626	9.42178	51		
10	8.77240	0.05474		9.94526	9.72872		0.27128	9.67398		0.32602	9.42157	50		
1	8.77290	0.05481		9.94519	9.72902		0.27098	9.67421		0.32579	9.42136	49		
2	8.77341	0.05487		9.94513	9.72932		0.27068	9.67445		0.32555	9.42115	48		
3	8.77391	0.05494		9.94506	9.72963		0.27037	9.67468		0.32532	9.42094	47		
4	8.77441	0.05501		9.94499	9.72993		0.27007	9.67492		0.32508	9.42073	46		
5	8.77492	0.05508		9.94492	9.73023		0.26977	9.67515		0.32485	9.42052	45		
6	8.77542	0.05515		9.94485	9.73054		0.26946	9.67539		0.32461	9.42031	44		
7	8.77592	0.05521		9.94479	9.73084		0.26916	9.67562		0.32438	9.42009	43		
8	8.77642	0.05528		9.94472	9.73114		0.26886	9.67586		0.32414	9.41988	42		
9	8.77692	0.05535		9.94465	9.73144		0.26856	9.67609		0.32391	9.41967	41		
20	8.77742	0.05542		9.94458	9.73175		0.26825	9.67633		0.32367	9.41946	40		
1	8.77792	0.05549		9.94451	9.73205		0.26795	9.67656		0.32344	9.41925	39		
2	8.77842	0.05555		9.94445	9.73235		0.26765	9.67680		0.32320	9.41904	38		
3	8.77892	0.05562		9.94438	9.73265		0.26735	9.67703		0.32297	9.41882	37		
4	8.77942	0.05569		9.94431	9.73295		0.26705	9.67726		0.32274	9.41861	36		
5	8.77992	0.05576		9.94424	9.73326		0.26674	9.67750		0.32250	9.41840	35		
6	8.78042	0.05583		9.94417	9.73356		0.26644	9.67773		0.32227	9.41819	34		
7	8.78092	0.05590	7	9.94410	9.73386	30	0.26614	9.67796	23	0.32204	9.41798	33		
8	8.78142	0.05596	.11	9.94404	9.73416	.1 3	0.26584	9.67820	.1 2	0.32180	9.41776	32		
9	8.78191	0.05603	.21	9.94397	9.73446	.2 6	0.26554	9.67843	.2 5	0.32157	9.41755	31		
			.32			.3 9			.3 7					
30	8.78241	0.05610	.43	9.94390	9.73476	.4 12	0.26524	9.67866	.4 9	0.32134	9.41734	30		
1	8.78291	0.05617	.54	9.94383	9.73507	.5 15	0.26493	9.67890	.5 12	0.32110	9.41713	29		
2	8.78341	0.05624	.64	9.94376	9.73537	.6 18	0.26463	9.67913	.6 14	0.32087	9.41691	28		
3	8.78390	0.05631	.75	9.94369	9.73567	.7 21	0.26433	9.67936	.7 16	0.32064	9.41670	27		
4	8.78440	0.05638	.86	9.94362	9.73597	.8 24	0.26403	9.67959	.8 18	0.32041	9.41649	26		
5	8.78489	0.05645	.96	9.94355	9.73627	.9 27	0.26373	9.67982	.9 21	0.32018	9.41628	25		
6	8.78539	0.05651		9.94349	9.73657		0.26343	9.68006		0.31994	9.41606	24		
7	8.78589	0.05658		9.94342	9.73687		0.26313	9.68029		0.31971	9.41585	23		
8	8.78638	0.05665		9.94335	9.73717		0.26283	9.68052		0.31948	9.41564	22		
9	8.78688	0.05672		9.94328	9.73747		0.26253	9.68075		0.31925	9.41543	21		
40	8.78737	0.05679		9.94321	9.73777		0.26223	9.68098		0.31902	9.41521	20		
1	8.78786	0.05686		9.94314	9.73807		0.26193	9.68121		0.31879	9.41500	19		
2	8.78836	0.05693		9.94307	9.73837		0.26163	9.68144		0.31856	9.41479	18		
3	8.78885	0.05700		9.94300	9.73867		0.26133	9.68167		0.31833	9.41457	17		
4	8.78935	0.05707		9.94293	9.73897		0.26103	9.68190		0.31810	9.41436	16		
5	8.78984	0.05714		9.94286	9.73927		0.26073	9.68213		0.31787	9.41415	15		
6	8.79033	0.05721		9.94280	9.73957		0.26043	9.68237		0.31763	9.41393	14		
7	8.79082	0.05727		9.94273	9.73987		0.26013	9.68260		0.31740	9.41372	13		
8	8.79132	0.05734		9.94266	9.74017		0.25983	9.68282		0.31718	9.41351	12		
9	8.79181	0.05741		9.94259	9.74047		0.25953	9.68305		0.31695	9.41329	11		
50	8.79230	0.05748		9.94252	9.74077		0.25923	9.68328		0.31672	9.41308	10		
1	8.79279	0.05755		9.94245	9.74107		0.25893	9.68351		0.31649	9.41286	9		
2	8.79328	0.05762		9.94238	9.74136		0.25864	9.68374		0.31626	9.41265	8		
3	8.79377	0.05769		9.94231	9.74166		0.25834	9.68397		0.31603	9.41244	7		
4	8.79426	0.05776		9.94224	9.74196		0.25804	9.68420		0.31580	9.41222	6		
5	8.79475	0.05783		9.94217	9.74226		0.25774	9.68443		0.31557	9.41201	5		
6	8.79524	0.05790		9.94210	9.74256		0.25744	9.68466		0.31534	9.41179	4		
7	8.79573	0.05797		9.94203	9.74286		0.25714	9.68489		0.31511	9.41158	3		
8	8.79622	0.05804		9.94196	9.74316		0.25684	9.68512		0.31488	9.41137	2		
9	8.79671	0.05811		9.94189	9.74345		0.25655	9.68534		0.31466	9.41115	1		
60	8.79720	0.05818		9.94182	9.74375		0.25625	9.68557		0.31443	9.41094	0		
50	.5 25	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEM V	61°		
.1	5													
.2	10													
.3	15													
.4	20													

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

29°		29°										22		.5		11	
SEM V		SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	2	.6	13			
											.2	4	.7	15			
											.3	7	.8	18			
											.4	9	.9	20			
0'	8.79720	0.05819		9.94182	9.74375		0.25625	9.68557		0.31443	9.41094			60'			
1	8.79769	0.05825		9.94175	9.74405		0.25695	9.68580		0.31420	9.41072			59			
2	8.79813	0.05832		9.94168	9.74435		0.25665	9.68603		0.31397	9.41051			58			
3	8.79866	0.05839		9.94161	9.74465		0.25635	9.68625		0.31375	9.41029			57			
4	8.79915	0.05846		9.94154	9.74494		0.25606	9.68648		0.31352	9.41008			56			
5	8.79964	0.05853		9.94147	9.74524		0.25476	9.68671		0.31329	9.40986			55			
6	8.80012	0.05860		9.94140	9.74554		0.25446	9.68694		0.31306	9.40965			54			
7	8.80061	0.05867		9.94133	9.74583		0.25417	9.68716		0.31284	9.40943			53			
8	8.80110	0.05874		9.94126	9.74613		0.25387	9.68739		0.31261	9.40922			52			
9	8.80158	0.05881		9.94119	9.74643		0.25357	9.68762		0.31238	9.40900			51			
10	8.80207	0.05888		9.94112	9.74673		0.25327	9.68784		0.31216	9.40879			50			
1	8.80255	0.05895		9.94105	9.74702		0.25298	9.68807		0.31193	9.40857			49			
2	8.80304	0.05902		9.94098	9.74732		0.25268	9.68829		0.31171	9.40836			48			
3	8.80352	0.05910		9.94090	9.74762		0.25238	9.68852		0.31148	9.40814			47			
4	8.80401	0.05917		9.94083	9.74791		0.25209	9.68875		0.31125	9.40793			46			
5	8.80449	0.05924		9.94076	9.74821		0.25179	9.68897		0.31103	9.40771			45			
6	8.80498	0.05931		9.94069	9.74851		0.25149	9.68920		0.31080	9.40750			44			
7	8.80546	0.05938		9.94062	9.74880		0.25120	9.68942		0.31058	9.40728			43			
8	8.80594	0.05945		9.94055	9.74910		0.25090	9.68965		0.31035	9.40707			42			
9	8.80643	0.05952		9.94048	9.74939		0.25061	9.68987		0.31013	9.40685			41			
20	8.80691	0.05959		9.94041	9.74969		0.25031	9.69010		0.30990	9.40663			40			
1	8.80739	0.05966		9.94034	9.74998		0.25002	9.69032		0.30968	9.40642			39			
2	8.80788	0.05973		9.94027	9.75028		0.24972	9.69055		0.30945	9.40620			38			
3	8.80836	0.05980		9.94020	9.75058		0.24942	9.69077		0.30923	9.40599			37			
4	8.80884	0.05988		9.94012	9.75087		0.24913	9.69100		0.30900	9.40577			36			
5	8.80932	0.05995		9.94005	9.75117		0.24883	9.69122		0.30878	9.40555			35			
6	8.80980	0.06002		9.93998	9.75146		0.24854	9.69144		0.30856	9.40534			34			
7	8.81028	0.06009	7	9.93991	9.75176	29	0.24824	9.69167	22	0.30833	9.40512			33			
8	8.81076	0.06016	.11	9.93984	9.75205	.1 3	0.24795	9.69189	.1 2	0.30811	9.40490			32			
9	8.81124	0.06023	.2 1	9.93977	9.75235	.2 6	0.24765	9.69212	.2 4	0.30788	9.40469			31			
30	8.81172	0.06030	.3 2			.3 8			.3 7								
1	8.81220	0.06037	.4 3	9.93970	9.75264	.4 12	0.24736	9.69234	.4 9	0.30766	9.40447			30			
2	8.81268	0.06045	.5 4	9.93963	9.75294	.5 15	0.24706	9.69256	.5 11	0.30744	9.40425			29			
3	8.81316	0.06052	.6 4	9.93955	9.75323	.6 17	0.24677	9.69279	.6 13	0.30721	9.40404			28			
4	8.81364	0.06059	.7 5	9.93948	9.75353	.7 20	0.24647	9.69301	.7 15	0.30699	9.40382			27			
5	8.81412	0.06066	.8 6	9.93941	9.75382	.8 23	0.24618	9.69323	.8 18	0.30677	9.40360			26			
6	8.81460	0.06073	.9 6	9.93934	9.75411	.9 26	0.24589	9.69345	.9 20	0.30655	9.40339			25			
7	8.81508	0.06080		9.93927	9.75441		0.24559	9.69368		0.30632	9.40317			24			
8	8.81555	0.06088		9.93920	9.75470		0.24530	9.69390		0.30610	9.40295			23			
9	8.81603	0.06095		9.93912	9.75500		0.24500	9.69412		0.30588	9.40274			22			
				9.93905	9.75529		0.24471	9.69434		0.30566	9.40252			21			
40	8.81651	0.06102		9.93898	9.75558		0.24442	9.69456		0.30544	9.40230			20			
1	8.81698	0.06109		9.93891	9.75588		0.24412	9.69479		0.30521	9.40208			19			
2	8.81746	0.06116		9.93884	9.75617		0.24383	9.69501		0.30499	9.40187			18			
3	8.81794	0.06124		9.93876	9.75647		0.24353	9.69523		0.30477	9.40165			17			
4	8.81841	0.06131		9.93869	9.75676		0.24324	9.69545		0.30455	9.40143			16			
5	8.81889	0.06138		9.93862	9.75705		0.24295	9.69567		0.30433	9.40121			15			
6	8.81936	0.06145		9.93855	9.75735		0.24265	9.69589		0.30411	9.40100			14			
7	8.81984	0.06153		9.93847	9.75764		0.24236	9.69611		0.30389	9.40078			13			
8	8.82031	0.06160		9.93840	9.75793		0.24207	9.69633		0.30367	9.40056			12			
9	8.82079	0.06167		9.93833	9.75822		0.24178	9.69655		0.30345	9.40034			11			
50	8.82126	0.06174		9.93826	9.75852		0.24148	9.69677		0.30323	9.40012			10			
1	8.82174	0.06181		9.93819	9.75881		0.24119	9.69699		0.30299	9.39991			9			
2	8.82221	0.06189		9.93811	9.75910		0.24090	9.69721		0.30279	9.39969			8			
3	8.82269	0.06196		9.93804	9.75939		0.24061	9.69743		0.30257	9.39947			7			
4	8.82316	0.06203		9.93797	9.75969		0.24031	9.69765		0.30235	9.39925			6			
5	8.82363	0.06211		9.93789	9.75998		0.24002	9.69787		0.30213	9.39903			5			
6	8.82410	0.06218		9.93782	9.76027		0.23973	9.69809		0.30191	9.39881			4			
7	8.82458	0.06225		9.93775	9.76056		0.23944	9.69831		0.30169	9.39860			3			
8	8.82505	0.06232		9.93768	9.76086		0.23914	9.69853		0.30147	9.39838			2			
9	8.82552	0.06240		9.93760	9.76115		0.23885	9.69875		0.30125	9.39816			1			
60	8.82599	0.06247		9.93753	9.76144		0.23856	9.69897		0.30103	9.39794			0			
48																	
.1	5	.5	24														
.2	10	.6	29														
.3	14	.7	34														
.4	19	.8	38														
		.9	43														
60°																	

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

30°	30°										22		
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3
0'	8.82599	0.06247		9.93753	9.76144		0.23856	9.69897		0.30103	.4	.5	.6
1	8.82646	0.06254		9.93746	9.76173		0.23827	9.69919		0.30081	.7	.8	.9
2	8.82693	0.06262		9.93738	9.76202		0.23798	9.69941		0.30059	.1	.2	.3
3	8.82741	0.06269		9.93731	9.76231		0.23769	9.69963		0.30037	.4	.5	.6
4	8.82788	0.06276		9.93724	9.76261		0.23739	9.69984		0.30016	.7	.8	.9
5	8.82835	0.06283		9.93717	9.76290		0.23710	9.70006		0.29994	.1	.2	.3
6	8.82882	0.06291		9.93709	9.76319		0.23681	9.70028		0.29972	.4	.5	.6
7	8.82929	0.06298		9.93702	9.76348		0.23652	9.70050		0.29950	.7	.8	.9
8	8.82976	0.06305		9.93695	9.76377		0.23623	9.70072		0.29928	.1	.2	.3
9	8.83022	0.06313		9.93687	9.76406		0.23594	9.70093		0.29907	.4	.5	.6
10	8.83069	0.06320		9.93680	9.76435		0.23565	9.70115		0.29885	.7	.8	.9
1	8.83116	0.06327		9.93673	9.76464		0.23536	9.70137		0.29863	.1	.2	.3
2	8.83163	0.06335		9.93665	9.76493		0.23507	9.70159		0.29841	.4	.5	.6
3	8.83210	0.06342		9.93658	9.76522		0.23478	9.70180		0.29820	.7	.8	.9
4	8.83257	0.06350		9.93650	9.76551		0.23449	9.70202		0.29798	.1	.2	.3
5	8.83303	0.06357		9.93643	9.76580		0.23420	9.70224		0.29776	.4	.5	.6
6	8.83350	0.06364		9.93636	9.76609		0.23391	9.70245		0.29755	.7	.8	.9
7	8.83397	0.06372		9.93628	9.76638		0.23362	9.70267		0.29733	.1	.2	.3
8	8.83443	0.06379		9.93621	9.76668		0.23332	9.70288		0.29712	.4	.5	.6
9	8.83490	0.06386		9.93614	9.76697		0.23303	9.70310		0.29690	.7	.8	.9
20	8.83537	0.06394		9.93606	9.76725		0.23275	9.70332		0.29668	.1	.2	.3
1	8.83583	0.06401		9.93599	9.76754		0.23246	9.70353		0.29647	.4	.5	.6
2	8.83630	0.06409		9.93591	9.76783		0.23217	9.70375		0.29625	.7	.8	.9
3	8.83676	0.06416		9.93584	9.76812		0.23188	9.70396		0.29604	.1	.2	.3
4	8.83723	0.06423		9.93577	9.76841		0.23159	9.70418		0.29582	.4	.5	.6
5	8.83769	0.06431		9.93569	9.76870		0.23130	9.70439		0.29561	.7	.8	.9
6	8.83816	0.06438		9.93562	9.76899		0.23101	9.70461		0.29539	.1	.2	.3
7	8.83862	0.06446	7	9.93554	9.76928	29	0.23072	9.70482	21	0.29518	.4	.5	.6
8	8.83909	0.06453	.11	9.93547	9.76957	.1 3	0.23043	9.70504	.1 2	0.29496	.7	.8	.9
9	8.83955	0.06461	.21	9.93539	9.76986	.2 6	0.23014	9.70525	.2 4	0.29475	.1	.2	.3
30	8.84001	0.06468	.32	9.93532	9.77015	.3 9	0.22985	9.70547	.3 6	0.29453	.4	.5	.6
1	8.84048	0.06475	.43	9.93525	9.77044	.4 12	0.22956	9.70568	.4 8	0.29432	.7	.8	.9
2	8.84094	0.06483	.54	9.93517	9.77073	.5 15	0.22927	9.70590	.5 11	0.29410	.1	.2	.3
3	8.84140	0.06490	.64	9.93510	9.77101	.6 17	0.22899	9.70611	.6 13	0.29389	.4	.5	.6
4	8.84187	0.06498	.75	9.93502	9.77130	.7 20	0.22870	9.70633	.7 15	0.29367	.7	.8	.9
5	8.84233	0.06505	.86	9.93495	9.77159	.8 23	0.22841	9.70654	.8 17	0.29346	.1	.2	.3
6	8.84279	0.06513	.96	9.93487	9.77188	.9 26	0.22812	9.70675	.9 19	0.29325	.4	.5	.6
7	8.84325	0.06520		9.93480	9.77217		0.22783	9.70697		0.29303	.7	.8	.9
8	8.84371	0.06528		9.93472	9.77246		0.22754	9.70718		0.29282	.1	.2	.3
9	8.84417	0.06535		9.93465	9.77274		0.22726	9.70739		0.29261	.4	.5	.6
40	8.84464	0.06543		9.93457	9.77303		0.22697	9.70761		0.29239	.7	.8	.9
1	8.84510	0.06550		9.93450	9.77332		0.22668	9.70782		0.29218	.1	.2	.3
2	8.84556	0.06558		9.93442	9.77361		0.22639	9.70803		0.29197	.4	.5	.6
3	8.84602	0.06565		9.93435	9.77390		0.22610	9.70824		0.29176	.7	.8	.9
4	8.84648	0.06573		9.93427	9.77418		0.22582	9.70846		0.29154	.1	.2	.3
5	8.84694	0.06580		9.93420	9.77447		0.22553	9.70867		0.29133	.4	.5	.6
6	8.84739	0.06588		9.93412	9.77476		0.22524	9.70888		0.29112	.7	.8	.9
7	8.84785	0.06595		9.93405	9.77505		0.22495	9.70909		0.29091	.1	.2	.3
8	8.84831	0.06603		9.93397	9.77533		0.22467	9.70931		0.29069	.4	.5	.6
9	8.84877	0.06610		9.93390	9.77562		0.22438	9.70952		0.29048	.7	.8	.9
50	8.84923	0.06618		9.93382	9.77591		0.22409	9.70973		0.29027	.1	.2	.3
1	8.84969	0.06625		9.93375	9.77619		0.22381	9.70994		0.29006	.4	.5	.6
2	8.85014	0.06633		9.93367	9.77648		0.22352	9.71015		0.28985	.7	.8	.9
3	8.85060	0.06640		9.93360	9.77677		0.22323	9.71036		0.28964	.1	.2	.3
4	8.85106	0.06648		9.93352	9.77706		0.22294	9.71058		0.28942	.4	.5	.6
5	8.85152	0.06656		9.93344	9.77734		0.22266	9.71079		0.28921	.7	.8	.9
6	8.85197	0.06663		9.93337	9.77763		0.22237	9.71100		0.28900	.1	.2	.3
7	8.85243	0.06671		9.93329	9.77791		0.22209	9.71121		0.28879	.4	.5	.6
8	8.85289	0.06678		9.93322	9.77820		0.22180	9.71142		0.28858	.7	.8	.9
9	8.85334	0.06686		9.93314	9.77849		0.22151	9.71163		0.28837	.1	.2	.3
60	8.85380	0.06693		9.93307	9.77877		0.22123	9.71184		0.28816	.4	.5	.6
46	.1 5	.2 6	.3 7	.4 8	.5 9	.6 10	.7 11	.8 12	.9 13	.1 14	.2 15	.3 16	.4 17
59°	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	SEMV	SEC	PP

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

31°	31°										23			
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4
0'	8.85380	0.06693		9.93307	9.77877		0.22123	9.71184		0.28816	.1	.2	.3	.4
1	8.85425	0.06701		9.93299	9.77906		0.22094	9.71205		0.28795	.2	.3	.4	.5
2	8.85471	0.06709		9.93291	9.77935		0.22065	9.71226		0.28774	.3	.4	.5	.6
3	8.85516	0.06716		9.93284	9.77963		0.22037	9.71247		0.28753	.4	.5	.6	.7
4	8.85562	0.06724		9.93276	9.77992		0.22008	9.71268		0.28732	.5	.6	.7	.8
5	8.85607	0.06731		9.93269	9.78020		0.21980	9.71289		0.28711	.6	.7	.8	.9
6	8.85653	0.06739		9.93261	9.78049		0.21951	9.71310		0.28690	.7	.8	.9	.10
7	8.85698	0.06747		9.93253	9.78077		0.21923	9.71331		0.28669	.8	.9	.10	.11
8	8.85743	0.06754		9.93246	9.78106		0.21894	9.71352		0.28648	.9	.10	.11	.12
9	8.85789	0.06762		9.93238	9.78135		0.21865	9.71373		0.28627	.10	.11	.12	.13
10	8.85834	0.06770		9.93230	9.78163		0.21837	9.71393		0.28607	.11	.12	.13	.14
1	8.85879	0.06777		9.93223	9.78192		0.21808	9.71414		0.28586	.12	.13	.14	.15
2	8.85925	0.06785		9.93215	9.78220		0.21780	9.71435		0.28565	.13	.14	.15	.16
3	8.85970	0.06793		9.93207	9.78249		0.21751	9.71456		0.28544	.14	.15	.16	.17
4	8.86015	0.06800		9.93200	9.78277		0.21723	9.71477		0.28523	.15	.16	.17	.18
5	8.86060	0.06808		9.93192	9.78306		0.21694	9.71498		0.28502	.16	.17	.18	.19
6	8.86105	0.06816		9.93184	9.78334		0.21666	9.71519		0.28481	.17	.18	.19	.20
7	8.86150	0.06823		9.93177	9.78363		0.21637	9.71539		0.28461	.18	.19	.20	.21
8	8.86196	0.06831		9.93169	9.78391		0.21609	9.71560		0.28440	.19	.20	.21	.22
9	8.86241	0.06839		9.93161	9.78419		0.21581	9.71581		0.28419	.20	.21	.22	.23
20	8.86286	0.06846		9.93154	9.78448		0.21552	9.71602		0.28398	.21	.22	.23	.24
1	8.86331	0.06854		9.93146	9.78476		0.21524	9.71622		0.28378	.22	.23	.24	.25
2	8.86376	0.06862		9.93138	9.78505		0.21495	9.71643		0.28357	.23	.24	.25	.26
3	8.86421	0.06869		9.93131	9.78533		0.21467	9.71664		0.28336	.24	.25	.26	.27
4	8.86466	0.06877		9.93123	9.78562		0.21438	9.71685		0.28315	.25	.26	.27	.28
5	8.86511	0.06885		9.93115	9.78590		0.21410	9.71705		0.28295	.26	.27	.28	.29
6	8.86556	0.06892		9.93108	9.78618		0.21382	9.71726		0.28274	.27	.28	.29	.30
7	8.86600	0.06900	8	9.93100	9.78647	28	0.21353	9.71747	20	0.28253	.28	.29	.30	.31
8	8.86645	0.06908	.11	9.93092	9.78676	.3	0.21325	9.71767	.2	0.28233	.29	.30	.31	.32
9	8.86690	0.06916	.22	9.93084	9.78704	.6	0.21296	9.71788	.4	0.28212	.30	.31	.32	.33
30	8.86735	0.06923	.32	9.93077	9.78732	.8	0.21268	9.71809	.6	0.28191	.31	.32	.33	.34
1	8.86780	0.06931	.43	9.93069	9.78760	.11	0.21240	9.71829	.8	0.28171	.32	.33	.34	.35
2	8.86824	0.06939	.54	9.93061	9.78789	.14	0.21211	9.71850	.10	0.28150	.33	.34	.35	.36
3	8.86869	0.06947	.65	9.93053	9.78817	.17	0.21183	9.71870	.12	0.28130	.34	.35	.36	.37
4	8.86914	0.06954	.76	9.93046	9.78845	.20	0.21155	9.71891	.14	0.28109	.35	.36	.37	.38
5	8.86959	0.06962	.88	9.93038	9.78874	.22	0.21126	9.71911	.16	0.28089	.36	.37	.38	.39
6	8.87003	0.06970	.97	9.93030	9.78902	.25	0.21098	9.71932	.18	0.28068	.37	.38	.39	.40
7	8.87048	0.06978		9.93022	9.78930		0.21070	9.71952		0.28048	.38	.39	.40	.41
8	8.87092	0.06986		9.93014	9.78959		0.21041	9.71973		0.28027	.39	.40	.41	.42
9	8.87137	0.06993		9.93007	9.78987		0.21013	9.71993		0.28006	.40	.41	.42	.43
40	8.87182	0.07001		9.92999	9.79015		0.20985	9.72014		0.27986	.41	.42	.43	.44
1	8.87226	0.07009		9.92991	9.79043		0.20957	9.72034		0.27966	.42	.43	.44	.45
2	8.87271	0.07017		9.92983	9.79072		0.20928	9.72055		0.27945	.43	.44	.45	.46
3	8.87315	0.07024		9.92976	9.79100		0.20900	9.72075		0.27925	.44	.45	.46	.47
4	8.87360	0.07032		9.92968	9.79128		0.20872	9.72096		0.27904	.45	.46	.47	.48
5	8.87404	0.07040		9.92960	9.79156		0.20844	9.72116		0.27884	.46	.47	.48	.49
6	8.87448	0.07048		9.92952	9.79185		0.20815	9.72137		0.27863	.47	.48	.49	.50
7	8.87493	0.07056		9.92944	9.79213		0.20787	9.72157		0.27843	.48	.49	.50	.51
8	8.87537	0.07064		9.92936	9.79241		0.20759	9.72177		0.27823	.49	.50	.51	.52
9	8.87581	0.07071		9.92929	9.79269		0.20731	9.72198		0.27802	.50	.51	.52	.53
50	8.87626	0.07079		9.92921	9.79297		0.20703	9.72218		0.27782	.51	.52	.53	.54
1	8.87670	0.07087		9.92913	9.79326		0.20674	9.72238		0.27762	.52	.53	.54	.55
2	8.87714	0.07095		9.92905	9.79354		0.20646	9.72259		0.27741	.53	.54	.55	.56
3	8.87759	0.07103		9.92897	9.79382		0.20618	9.72279		0.27721	.54	.55	.56	.57
4	8.87803	0.07111		9.92889	9.79410		0.20590	9.72299		0.27701	.55	.56	.57	.58
5	8.87847	0.07119		9.92881	9.79438		0.20562	9.72320		0.27680	.56	.57	.58	.59
6	8.87891	0.07126		9.92874	9.79466		0.20534	9.72340		0.27660	.57	.58	.59	.60
7	8.87935	0.07134		9.92866	9.79495		0.20505	9.72360		0.27640	.58	.59	.60	.61
8	8.87979	0.07142		9.92858	9.79523		0.20477	9.72381		0.27619	.59	.60	.61	.62
9	8.88024	0.07150		9.92850	9.79551		0.20449	9.72401		0.27599	.60	.61	.62	.63
60	8.88068	0.07158		9.92842	9.79579		0.20421	9.72421		0.27579	.61	.62	.63	.64
45	.1	.5	.23	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV	58°
.1	.5	.23												
.2	.6	.27												
.3	.7	.32												
.4	.8	.36												
.5	.9	.41												

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

32°		32°									23		12	
		SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	
0'	8.88068	0.07158			9.92842	9.79579		0.20421	9.72421		0.27579	9.37114		60'
1	8.88112	0.07166			9.92834	9.79607		0.20393	9.72441		0.27559	9.37091		59
2	8.88156	0.07174			9.92826	9.79635		0.20365	9.72461		0.27539	9.37069		58
3	8.88200	0.07182			9.92818	9.79663		0.20337	9.72482		0.27518	9.37046		57
4	8.88244	0.07190			9.92810	9.79691		0.20309	9.72502		0.27498	9.37023		56
5	8.88288	0.07197			9.92803	9.79719		0.20281	9.72522		0.27478	9.37000		55
6	8.88331	0.07205			9.92795	9.79747		0.20253	9.72542		0.27458	9.36977		54
7	8.88375	0.07213			9.92787	9.79775		0.20225	9.72562		0.27438	9.36954		53
8	8.88419	0.07221			9.92779	9.79804		0.20196	9.72582		0.27418	9.36932		52
9	8.88463	0.07229			9.92771	9.79832		0.20168	9.72602		0.27398	9.36909		51
10	8.88507	0.07237			9.92763	9.79860		0.20140	9.72622		0.27378	9.36886		50
1	8.88551	0.07245			9.92755	9.79888		0.20112	9.72643		0.27357	9.36863		49
2	8.88595	0.07253			9.92747	9.79916		0.20084	9.72663		0.27337	9.36840		48
3	8.88638	0.07261			9.92739	9.79944		0.20056	9.72683		0.27317	9.36817		47
4	8.88682	0.07269			9.92731	9.79972		0.20028	9.72703		0.27297	9.36794		46
5	8.88726	0.07277			9.92723	9.80000		0.20000	9.72723		0.27277	9.36771		45
6	8.88769	0.07285			9.92715	9.80028		0.19972	9.72743		0.27257	9.36749		44
7	8.88813	0.07293			9.92707	9.80056		0.19944	9.72763		0.27237	9.36726		43
8	8.88857	0.07301			9.92699	9.80084		0.19916	9.72783		0.27217	9.36703		42
9	8.88900	0.07309			9.92691	9.80112		0.19888	9.72803		0.27197	9.36680		41
20	8.88944	0.07317			9.92683	9.80140		0.19860	9.72823		0.27177	9.36657		40
1	8.88987	0.07325			9.92675	9.80168		0.19832	9.72843		0.27157	9.36634		39
2	8.89031	0.07333			9.92667	9.80195		0.19805	9.72863		0.27137	9.36611		38
3	8.89075	0.07341			9.92659	9.80223		0.19777	9.72883		0.27117	9.36588		37
4	8.89118	0.07349			9.92651	9.80251		0.19749	9.72902		0.27098	9.36565		36
5	8.89162	0.07357			9.92643	9.80279		0.19721	9.72922		0.27078	9.36542		35
6	8.89205	0.07365			9.92635	9.80307		0.19693	9.72942		0.27058	9.36519		34
7	8.89248	0.07373			9.92627	9.80335		0.19665	9.72962		0.27038	9.36496		33
8	8.89292	0.07381			9.92619	9.80363		0.19637	9.72982		0.27018	9.36473		32
9	8.89335	0.07389			9.92611	9.80391		0.19609	9.73002		0.26998	9.36450		31
30	8.89379	0.07397			9.92603	9.80419		0.19581	9.73022		0.26978	9.36427		30
1	8.89422	0.07405			9.92595	9.80447		0.19553	9.73041		0.26959	9.36404		29
2	8.89465	0.07413			9.92587	9.80474		0.19526	9.73061		0.26939	9.36381		28
3	8.89508	0.07421			9.92579	9.80502		0.19498	9.73081		0.26919	9.36358		27
4	8.89552	0.07429			9.92571	9.80530		0.19470	9.73101		0.26899	9.36335		26
5	8.89595	0.07437			9.92563	9.80558		0.19442	9.73121		0.26879	9.36312		25
6	8.89638	0.07445			9.92555	9.80586		0.19414	9.73140		0.26860	9.36289		24
7	8.89681	0.07454			9.92546	9.80614		0.19386	9.73160		0.26840	9.36266		23
8	8.89725	0.07462			9.92538	9.80642		0.19358	9.73180		0.26820	9.36242		22
9	8.89768	0.07470			9.92530	9.80669		0.19331	9.73200		0.26800	9.36219		21
40	8.89811	0.07478			9.92522	9.80697		0.19303	9.73219		0.26781	9.36196		20
1	8.89854	0.07486			9.92514	9.80725		0.19275	9.73239		0.26761	9.36173		19
2	8.89897	0.07494			9.92506	9.80753		0.19247	9.73259		0.26741	9.36150		18
3	8.89940	0.07502			9.92498	9.80781		0.19219	9.73278		0.26722	9.36127		17
4	8.89983	0.07510			9.92490	9.80808		0.19192	9.73298		0.26702	9.36104		16
5	8.90026	0.07518			9.92482	9.80836		0.19164	9.73318		0.26682	9.36081		15
6	8.90069	0.07527			9.92473	9.80864		0.19136	9.73337		0.26663	9.36058		14
7	8.90112	0.07535			9.92465	9.80892		0.19108	9.73357		0.26643	9.36034		13
8	8.90155	0.07543			9.92457	9.80919		0.19081	9.73377		0.26623	9.36011		12
9	8.90198	0.07551			9.92449	9.80947		0.19053	9.73396		0.26604	9.35988		11
50	8.90241	0.07559			9.92441	9.80975		0.19025	9.73416		0.26584	9.35965		10
1	8.90284	0.07567			9.92433	9.81003		0.18997	9.73435		0.26565	9.35942		9
2	8.90326	0.07575			9.92425	9.81030		0.18970	9.73455		0.26545	9.35918		8
3	8.90369	0.07584			9.92416	9.81058		0.18942	9.73474		0.26526	9.35895		7
4	8.90412	0.07592			9.92408	9.81086		0.18914	9.73494		0.26506	9.35872		6
5	8.90455	0.07600			9.92400	9.81113		0.18887	9.73513		0.26487	9.35849		5
6	8.90498	0.07608			9.92392	9.81141		0.18859	9.73533		0.26467	9.35826		4
7	8.90540	0.07616			9.92384	9.81169		0.18831	9.73552		0.26448	9.35802		3
8	8.90583	0.07624			9.92376	9.81196		0.18804	9.73572		0.26428	9.35779		2
9	8.90626	0.07633			9.92367	9.81224		0.18776	9.73591		0.26409	9.35756		1
60	8.90668	0.07641			9.92359	9.81252		0.18748	9.73611		0.26389	9.35733		0
44														
.1	4													
.2	9													
.3	13													
.4	18													
COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV					
57°														57°

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

33°		33°									24		5	12	
		SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2		
0'	8.90668	0.07641			9.92359	9.81252		0.18748	9.73611		0.26389	9.35733			60'
1	8.90711	0.07649			9.92351	9.81279		0.18721	9.73630		0.26370	9.35709			59
2	8.90754	0.07657			9.92343	9.81307		0.18693	9.73650		0.26350	9.35686			58
3	8.90796	0.07665			9.92335	9.81335		0.18665	9.73669		0.26331	9.35663			57
4	8.90839	0.07674			9.92326	9.81362		0.18638	9.73689		0.26311	9.35639			56
5	8.90881	0.07682			9.92318	9.81390		0.18610	9.73708		0.26292	9.35616			55
6	8.90924	0.07690			9.92310	9.81418		0.18582	9.73727		0.26273	9.35593			54
7	8.90966	0.07698			9.92302	9.81445		0.18555	9.73747		0.26253	9.35569			53
8	8.91009	0.07707			9.92293	9.81473		0.18527	9.73766		0.26234	9.35546			52
9	8.91051	0.07715			9.92285	9.81500		0.18500	9.73785		0.26214	9.35523			51
10	8.91094	0.07723			9.92277	9.81528		0.18472	9.73805		0.26195	9.35499			50
1	8.91136	0.07731			9.92269	9.81556		0.18444	9.73824		0.26176	9.35476			49
2	8.91178	0.07740			9.92260	9.81583		0.18417	9.73843		0.26157	9.35453			48
3	8.91221	0.07748			9.92252	9.81611		0.18389	9.73863		0.26137	9.35429			47
4	8.91263	0.07756			9.92244	9.81638		0.18362	9.73882		0.26118	9.35406			46
5	8.91306	0.07765			9.92236	9.81666		0.18334	9.73901		0.26099	9.35383			45
6	8.91348	0.07773			9.92227	9.81693		0.18307	9.73921		0.26079	9.35360			44
7	8.91390	0.07781			9.92219	9.81721		0.18279	9.73940		0.26060	9.35336			43
8	8.91432	0.07789			9.92211	9.81748		0.18252	9.73959		0.26041	9.35312			42
9	8.91475	0.07798			9.92202	9.81776		0.18224	9.73978		0.26022	9.35289			41
20	8.91517	0.07806			9.92194	9.81803		0.18197	9.73997		0.26003	9.35266			40
1	8.91559	0.07814			9.92186	9.81831		0.18169	9.74017		0.25983	9.35242			39
2	8.91601	0.07823			9.92177	9.81858		0.18142	9.74036		0.25964	9.35219			38
3	8.91643	0.07831			9.92169	9.81886		0.18114	9.74055		0.25945	9.35195			37
4	8.91685	0.07839			9.92161	9.81913		0.18087	9.74074		0.25926	9.35172			36
5	8.91727	0.07848			9.92152	9.81941		0.18059	9.74093		0.25907	9.35148			35
6	8.91770	0.07856			9.92144	9.81968		0.18032	9.74113		0.25887	9.35125			34
7	8.91812	0.07864			9.92136	9.81996		0.18004	9.74132		0.25868	9.35101			33
8	8.91854	0.07873			9.92127	9.82023		0.17977	9.74151		0.25849	9.35078			32
9	8.91896	0.07881			9.92119	9.82051		0.17949	9.74170		0.25830	9.35054			31
30	8.91938	0.07889			9.92111	9.82078		0.17922	9.74189		0.25811	9.35031			30
1	8.91980	0.07898			9.92102	9.82106		0.17894	9.74208		0.25792	9.35007			29
2	8.92022	0.07906			9.92094	9.82133		0.17867	9.74227		0.25773	9.34984			28
3	8.92063	0.07914			9.92086	9.82161		0.17839	9.74246		0.25754	9.34960			27
4	8.92105	0.07923			9.92077	9.82188		0.17812	9.74265		0.25735	9.34937			26
5	8.92147	0.07931			9.92069	9.82215		0.17785	9.74284		0.25716	9.34913			25
6	8.92189	0.07940			9.92060	9.82243		0.17757	9.74303		0.25697	9.34890			24
7	8.92231	0.07948			9.92052	9.82270		0.17730	9.74322		0.25678	9.34866			23
8	8.92273	0.07956			9.92044	9.82298		0.17702	9.74341		0.25659	9.34843			22
9	8.92315	0.07965			9.92035	9.82325		0.17675	9.74360		0.25640	9.34819			21
40	8.92356	0.07973			9.92027	9.82352		0.17648	9.74379		0.25621	9.34795			20
1	8.92398	0.07982			9.92018	9.82380		0.17620	9.74398		0.25602	9.34772			19
2	8.92440	0.07990			9.92010	9.82407		0.17593	9.74417		0.25583	9.34748			18
3	8.92481	0.07998			9.92002	9.82435		0.17565	9.74436		0.25564	9.34725			17
4	8.92523	0.08007			9.91993	9.82462		0.17538	9.74455		0.25545	9.34701			16
5	8.92565	0.08015			9.91985	9.82489		0.17511	9.74474		0.25526	9.34677			15
6	8.92606	0.08024			9.91976	9.82517		0.17483	9.74493		0.25507	9.34654			14
7	8.92648	0.08032			9.91968	9.82544		0.17456	9.74512		0.25488	9.34630			13
8	8.92690	0.08041			9.91959	9.82571		0.17429	9.74531		0.25469	9.34606			12
9	8.92731	0.08049			9.91951	9.82599		0.17401	9.74549		0.25451	9.34583			11
50	8.92773	0.08058			9.91942	9.82626		0.17374	9.74568		0.25432	9.34559			10
1	8.92814	0.08066			9.91934	9.82653		0.17347	9.74587		0.25413	9.34535			9
2	8.92856	0.08075			9.91925	9.82681		0.17319	9.74606		0.25394	9.34512			8
3	8.92897	0.08083			9.91917	9.82708		0.17292	9.74625		0.25375	9.34488			7
4	8.92939	0.08092			9.91908	9.82735		0.17265	9.74644		0.25356	9.34464			6
5	8.92980	0.08100			9.91900	9.82762		0.17238	9.74662		0.25338	9.34441			5
6	8.93022	0.08109			9.91891	9.82790		0.17210	9.74681		0.25319	9.34417			4
7	8.93063	0.08117			9.91883	9.82817		0.17183	9.74700		0.25300	9.34393			3
8	8.93104	0.08126			9.91874	9.82844		0.17156	9.74719		0.25281	9.34369			2
9	8.93146	0.08134			9.91866	9.82871		0.17129	9.74737		0.25263	9.34346			1
60	8.93187	0.08143			9.91857	9.82899		0.17101	9.74756		0.25244	9.34322			0
42															
.1	4	.5	21												
.2	5	.6	25												
.3	6	.7	29												
.4	7	.8	34												
.5	8	.9	38												
56°															56°
42		COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV				

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

34°											24				5		12		
											.1	.2	.3	.4	.5	.6	.7	.8	.9
34°	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC									
0'	8.93187	0.08143		9.91857	9.82899		0.17101	9.74756		0.25244	9.34322								
1	8.93228	0.08151		9.91849	9.82926		0.17074	9.74776		0.25225	9.34298								
2	8.93270	0.08160		9.91840	9.82953		0.17047	9.74794		0.25206	9.34274								
3	8.93311	0.08168		9.91832	9.82980		0.17020	9.74812		0.25188	9.34251								
4	8.93352	0.08177		9.91823	9.83008		0.16992	9.74831		0.25169	9.34227								
5	8.93393	0.08185		9.91815	9.83035		0.16965	9.74850		0.25150	9.34203								
6	8.93435	0.08194		9.91806	9.83062		0.16938	9.74868		0.25132	9.34179								
7	8.93476	0.08202		9.91798	9.83089		0.16911	9.74887		0.25113	9.34155								
8	8.93517	0.08211		9.91789	9.83117		0.16883	9.74906		0.25094	9.34131								
9	8.93558	0.08219		9.91781	9.83144		0.16856	9.74924		0.25076	9.34108								
10	8.93599	0.08228		9.91772	9.83171		0.16829	9.74943		0.25057	9.34084								
1	8.93640	0.08237		9.91763	9.83198		0.16802	9.74961		0.25039	9.34060								
2	8.93681	0.08246		9.91755	9.83225		0.16775	9.74980		0.25020	9.34036								
3	8.93722	0.08254		9.91746	9.83252		0.16748	9.74999		0.25001	9.34012								
4	8.93763	0.08262		9.91738	9.83280		0.16720	9.75017		0.24983	9.33988								
5	8.93804	0.08271		9.91729	9.83307		0.16693	9.75036		0.24964	9.33965								
6	8.93845	0.08280		9.91720	9.83334		0.16666	9.75054		0.24946	9.33941								
7	8.93886	0.08288		9.91712	9.83361		0.16639	9.75073		0.24927	9.33917								
8	8.93927	0.08297		9.91703	9.83388		0.16612	9.75091		0.24909	9.33893								
9	8.93968	0.08305		9.91695	9.83415		0.16585	9.75110		0.24890	9.33869								
20	8.94009	0.08314		9.91686	9.83442		0.16558	9.75128		0.24872	9.33845								
1	8.94050	0.08323		9.91677	9.83470		0.16530	9.75147		0.24853	9.33821								
2	8.94091	0.08331		9.91669	9.83497		0.16503	9.75165		0.24835	9.33797								
3	8.94132	0.08340		9.91660	9.83524		0.16476	9.75184		0.24816	9.33773								
4	8.94173	0.08349		9.91651	9.83551		0.16449	9.75202		0.24798	9.33749								
5	8.94213	0.08357		9.91643	9.83578		0.16422	9.75221		0.24779	9.33725								
6	8.94254	0.08366		9.91634	9.83605		0.16395	9.75239		0.24761	9.33701								
7	8.94295	0.08375		9.91625	9.83632		0.16368	9.75258		0.24742	9.33677								
8	8.94336	0.08383		9.91617	9.83659		0.16341	9.75276		0.24724	9.33653								
9	8.94376	0.08392		9.91608	9.83686		0.16314	9.75294		0.24706	9.33629								
30	8.94417	0.08401		9.91599	9.83713		0.16287	9.75313		0.24687	9.33605								
1	8.94458	0.08409		9.91591	9.83740		0.16260	9.75331		0.24669	9.33581								
2	8.94498	0.08418		9.91582	9.83768		0.16232	9.75350		0.24650	9.33557								
3	8.94539	0.08427		9.91573	9.83795		0.16205	9.75368		0.24632	9.33533								
4	8.94580	0.08435		9.91565	9.83822		0.16178	9.75386		0.24614	9.33509								
5	8.94620	0.08444		9.91556	9.83849		0.16151	9.75405		0.24595	9.33485								
6	8.94661	0.08453		9.91547	9.83876		0.16124	9.75423		0.24577	9.33461								
7	8.94701	0.08462		9.91538	9.83903		0.16097	9.75441		0.24559	9.33437								
8	8.94742	0.08470		9.91530	9.83930		0.16070	9.75459		0.24541	9.33413								
9	8.94782	0.08479		9.91521	9.83957		0.16043	9.75478		0.24522	9.33389								
40	8.94823	0.08488		9.91512	9.83984		0.16016	9.75496		0.24504	9.33365								
1	8.94863	0.08496		9.91504	9.84011		0.15989	9.75514		0.24486	9.33341								
2	8.94904	0.08505		9.91495	9.84038		0.15962	9.75533		0.24467	9.33317								
3	8.94944	0.08514		9.91486	9.84065		0.15935	9.75551		0.24449	9.33292								
4	8.94985	0.08523		9.91477	9.84092		0.15908	9.75569		0.24431	9.33268								
5	8.95025	0.08531		9.91469	9.84119		0.15881	9.75587		0.24413	9.33244								
6	8.95065	0.08540		9.91460	9.84146		0.15854	9.75605		0.24395	9.33220								
7	8.95106	0.08549		9.91451	9.84173		0.15827	9.75624		0.24376	9.33196								
8	8.95146	0.08558		9.91442	9.84200		0.15800	9.75642		0.24358	9.33172								
9	8.95186	0.08567		9.91433	9.84227		0.15773	9.75660		0.24340	9.33148								
50	8.95227	0.08575		9.91445	9.84254		0.15746	9.75678		0.24322	9.33123								
1	8.95267	0.08584		9.91416	9.84280		0.15720	9.75696		0.24304	9.33099								
2	8.95307	0.08593		9.91407	9.84307		0.15693	9.75714		0.24286	9.33075								
3	8.95347	0.08602		9.91398	9.84334		0.15666	9.75733		0.24267	9.33051								
4	8.95388	0.08611		9.91389	9.84361		0.15639	9.75751		0.24249	9.33027								
5	8.95428	0.08619		9.91381	9.84388		0.15612	9.75769		0.24231	9.33002								
6	8.95468	0.08628		9.91372	9.84415		0.15585	9.75787		0.24213	9.32978								
7	8.95508	0.08637		9.91363	9.84442		0.15558	9.75805		0.24195	9.32954								
8	8.95548	0.08646		9.91354	9.84469		0.15531	9.75823		0.24177	9.32930								
9	8.95588	0.08655		9.91345	9.84496		0.15504	9.75841		0.24159	9.32905								
60	8.95628	0.08664		9.91336	9.84523		0.15477	9.75859		0.24141	9.32881								
41	.1 4	.5 21																	
	.2 6	.6 25																	
	.3 8	.7 29																	
	.4 12	.8 33																	
	.5 16	.9 37																	
55°																			
	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV									

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

35°		35°										25		13
		SEM V	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	3	
0	8.95628	0.08664			9.91336	9.84523		0.15477	9.75859		0.24141	.1	3	60
1	8.95668	0.08672			9.91328	9.84550		0.15450	9.75877		0.24123	.2	5	59
2	8.95708	0.08681			9.91319	9.84576		0.15424	9.75895		0.24105	.3	8	58
3	8.95748	0.08690			9.91310	9.84603		0.15397	9.75913		0.24087	.4	10	57
4	8.95788	0.08699			9.91301	9.84630		0.15370	9.75931		0.24069			56
5	8.95828	0.08708			9.91292	9.84657		0.15343	9.75949		0.24051			55
6	8.95868	0.08717			9.91283	9.84684		0.15316	9.75967		0.24033			54
7	8.95908	0.08726			9.91274	9.84711		0.15289	9.75985		0.24015			53
8	8.95948	0.08734			9.91266	9.84738		0.15262	9.76003		0.23997			52
9	8.95988	0.08743			9.91257	9.84764		0.15236	9.76021		0.23979			51
10	8.96028	0.08752			9.91248	9.84791		0.15209	9.76039		0.23961			50
1	8.96068	0.08761			9.91239	9.84818		0.15182	9.76057		0.23943			49
2	8.96108	0.08770			9.91230	9.84845		0.15155	9.76075		0.23925			48
3	8.96148	0.08779			9.91221	9.84872		0.15128	9.76093		0.23907			47
4	8.96187	0.08788			9.91212	9.84899		0.15101	9.76111		0.23889			46
5	8.96227	0.08797			9.91203	9.84925		0.15075	9.76129		0.23871			45
6	8.96267	0.08806			9.91194	9.84952		0.15048	9.76146		0.23854			44
7	8.96307	0.08815			9.91185	9.84979		0.15021	9.76164		0.23836			43
8	8.96346	0.08824			9.91176	9.85006		0.14994	9.76182		0.23818			42
9	8.96386	0.08833			9.91167	9.85033		0.14967	9.76200		0.23800			41
20	8.96426	0.08842			9.91158	9.85059		0.14941	9.76218		0.23782			40
1	8.96465	0.08851			9.91149	9.85086		0.14914	9.76236		0.23764			39
2	8.96505	0.08859			9.91141	9.85113		0.14887	9.76253		0.23747			38
3	8.96545	0.08868			9.91132	9.85140		0.14860	9.76271		0.23729			37
4	8.96584	0.08877			9.91123	9.85166		0.14834	9.76289		0.23711			36
5	8.96624	0.08886			9.91114	9.85193		0.14807	9.76307		0.23693			35
6	8.96663	0.08895			9.91105	9.85220		0.14780	9.76324		0.23676			34
7	8.96703	0.08904			9.91096	9.85247		0.14753	9.76342		0.23658			33
8	8.96742	0.08913			9.91087	9.85273		0.14727	9.76360		0.23640			32
9	8.96782	0.08922			9.91078	9.85300		0.14700	9.76378		0.23622			31
30	8.96821	0.08931			9.91069	9.85327		0.14673	9.76395		0.23605			30
1	8.96861	0.08940			9.91060	9.85354		0.14646	9.76413		0.23587			29
2	8.96900	0.08949			9.91051	9.85380		0.14620	9.76431		0.23569			28
3	8.96940	0.08958			9.91042	9.85407		0.14593	9.76448		0.23552			27
4	8.96979	0.08967			9.91033	9.85434		0.14566	9.76466		0.23534			26
5	8.97018	0.08977			9.91023	9.85460		0.14540	9.76484		0.23516			25
6	8.97058	0.08986			9.91014	9.85487		0.14513	9.76501		0.23499			24
7	8.97097	0.08995			9.91005	9.85514		0.14486	9.76519		0.23481			23
8	8.97136	0.09004			9.90996	9.85540		0.14460	9.76537		0.23463			22
9	8.97176	0.09013			9.90987	9.85567		0.14433	9.76554		0.23446			21
40	8.97215	0.09022			9.90978	9.85594		0.14406	9.76572		0.23428			20
1	8.97254	0.09031			9.90969	9.85620		0.14380	9.76590		0.23410			19
2	8.97293	0.09040			9.90960	9.85647		0.14353	9.76607		0.23393			18
3	8.97333	0.09049			9.90951	9.85674		0.14326	9.76625		0.23375			17
4	8.97372	0.09058			9.90942	9.85700		0.14300	9.76642		0.23358			16
5	8.97411	0.09067			9.90933	9.85727		0.14273	9.76660		0.23340			15
6	8.97450	0.09076			9.90924	9.85754		0.14246	9.76677		0.23323			14
7	8.97489	0.09085			9.90915	9.85780		0.14220	9.76695		0.23305			13
8	8.97528	0.09094			9.90906	9.85807		0.14193	9.76712		0.23288			12
9	8.97568	0.09104			9.90896	9.85834		0.14166	9.76730		0.23270			11
50	8.97607	0.09113			9.90887	9.85860		0.14140	9.76747		0.23253			10
1	8.97646	0.09122			9.90878	9.85887		0.14113	9.76765		0.23235			9
2	8.97685	0.09131			9.90869	9.85913		0.14087	9.76782		0.23218			8
3	8.97724	0.09140			9.90860	9.85940		0.14060	9.76800		0.23200			7
4	8.97763	0.09149			9.90851	9.85967		0.14033	9.76817		0.23183			6
5	8.97802	0.09158			9.90842	9.85993		0.14007	9.76835		0.23165			5
6	8.97841	0.09168			9.90832	9.86020		0.13980	9.76852		0.23148			4
7	8.97880	0.09177			9.90823	9.86046		0.13954	9.76870		0.23130			3
8	8.97919	0.09186			9.90814	9.86073		0.13927	9.76887		0.23113			2
9	8.97958	0.09195			9.90805	9.86100		0.13900	9.76904		0.23096			1
60	8.97996	0.09204			9.90796	9.86126		0.13874	9.76922		0.23078			0
40		.5	20	54°										54°
		.1	4											
		.2	8											
		.3	12											
		.4	16											
		.5	24											
		.6	28											
		.7	32											
		.8	36											
		.9	40											

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

36°	36°										25		
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.3	.5
0'	8.97996	0.09204		9.90796	9.86126		0.13874	9.76922		0.23078	.1	3	.6
1	8.98035	0.09213		9.90787	9.86153		0.13847	9.76939		0.23061	.2	5	.7
2	8.98074	0.09223		9.90777	9.86179		0.13821	9.76957		0.23043	.3	8	.8
3	8.98113	0.09232		9.90768	9.86206		0.13794	9.76974		0.23026	.4	10	.9
4	8.98152	0.09241		9.90759	9.86232		0.13768	9.76991		0.23009			
5	8.98191	0.09250		9.90750	9.86259		0.13741	9.77009		0.22991			
6	8.98229	0.09259		9.90741	9.86285		0.13715	9.77026		0.22974			
7	8.98268	0.09269		9.90731	9.86312		0.13688	9.77043		0.22957			
8	8.98307	0.09278		9.90722	9.86338		0.13662	9.77061		0.22939			
9	8.98346	0.09287		9.90713	9.86365		0.13635	9.77078		0.22922			
10	8.98384	0.09296		9.90704	9.86392		0.13608	9.77095		0.22905			
1	8.98423	0.09306		9.90694	9.86418		0.13582	9.77112		0.22888			
2	8.98462	0.09315		9.90685	9.86445		0.13555	9.77130		0.22870			
3	8.98500	0.09324		9.90676	9.86471		0.13529	9.77147		0.22853			
4	8.98539	0.09333		9.90667	9.86498		0.13502	9.77164		0.22836			
5	8.98578	0.09343		9.90657	9.86524		0.13476	9.77181		0.22819			
6	8.98616	0.09352		9.90648	9.86551		0.13449	9.77199		0.22801			
7	8.98655	0.09361		9.90639	9.86577		0.13423	9.77216		0.22784			
8	8.98693	0.09370		9.90630	9.86603		0.13397	9.77233		0.22767			
9	8.98732	0.09380		9.90620	9.86630		0.13370	9.77250		0.22750			
20	8.98770	0.09389		9.90611	9.86656		0.13344	9.77268		0.22732			
1	8.98809	0.09398		9.90602	9.86683		0.13317	9.77285		0.22715			
2	8.98847	0.09408		9.90592	9.86709		0.13291	9.77302		0.22698			
3	8.98886	0.09417		9.90583	9.86736		0.13264	9.77319		0.22681			
4	8.98924	0.09426		9.90574	9.86762		0.13238	9.77336		0.22664			
5	8.98962	0.09435		9.90565	9.86789		0.13211	9.77353		0.22647			
6	8.99001	0.09445		9.90555	9.86815		0.13185	9.77370		0.22630			
7	8.99039	0.09454		9.90546	9.86842		0.13158	9.77387		0.22613			
8	8.99078	0.09463		9.90537	9.86868		0.13132	9.77405		0.22595			
9	8.99116	0.09473		9.90527	9.86894		0.13106	9.77422		0.22578			
30	8.99154	0.09482		9.90518	9.86921		0.13079	9.77439		0.22561			
1	8.99193	0.09491		9.90509	9.86947		0.13053	9.77456		0.22544			
2	8.99231	0.09501		9.90499	9.86974		0.13026	9.77473		0.22527			
3	8.99269	0.09510		9.90490	9.87000		0.13000	9.77490		0.22510			
4	8.99307	0.09520		9.90480	9.87027		0.12973	9.77507		0.22493			
5	8.99346	0.09529		9.90471	9.87053		0.12947	9.77524		0.22476			
6	8.99384	0.09538		9.90462	9.87079		0.12921	9.77541		0.22459			
7	8.99422	0.09548		9.90452	9.87106		0.12894	9.77558		0.22442			
8	8.99460	0.09557		9.90443	9.87132		0.12868	9.77575		0.22425			
9	8.99498	0.09566		9.90434	9.87158		0.12842	9.77592		0.22408			
40	8.99536	0.09576		9.90424	9.87185		0.12815	9.77609		0.22391			
1	8.99575	0.09585		9.90415	9.87211		0.12789	9.77626		0.22374			
2	8.99613	0.09595		9.90406	9.87238		0.12762	9.77643		0.22357			
3	8.99651	0.09604		9.90396	9.87264		0.12736	9.77660		0.22340			
4	8.99689	0.09614		9.90386	9.87290		0.12710	9.77677		0.22323			
5	8.99727	0.09623		9.90377	9.87317		0.12683	9.77694		0.22306			
6	8.99765	0.09632		9.90368	9.87343		0.12657	9.77711		0.22289			
7	8.99803	0.09642		9.90358	9.87369		0.12631	9.77727		0.22273			
8	8.99841	0.09651		9.90349	9.87396		0.12604	9.77744		0.22256			
9	8.99879	0.09661		9.90339	9.87422		0.12578	9.77761		0.22239			
50	8.99917	0.09670		9.90330	9.87448		0.12552	9.77778		0.22222			
1	8.99955	0.09680		9.90320	9.87475		0.12525	9.77795		0.22205			
2	8.99993	0.09689		9.90311	9.87501		0.12499	9.77812		0.22188			
3	9.00031	0.09699		9.90301	9.87527		0.12473	9.77829		0.22171			
4	9.00068	0.09708		9.90292	9.87554		0.12446	9.77846		0.22154			
5	9.00106	0.09718		9.90282	9.87580		0.12420	9.77862		0.22138			
6	9.00144	0.09727		9.90273	9.87606		0.12394	9.77879		0.22121			
7	9.00182	0.09737		9.90263	9.87633		0.12367	9.77896		0.22104			
8	9.00220	0.09746		9.90254	9.87659		0.12341	9.77913		0.22087			
9	9.00258	0.09756		9.90244	9.87685		0.12315	9.77930		0.22070			
60	9.00295	0.09765		9.90235	9.87711		0.12289	9.77946		0.22054			
39													
.1	4	.6	20										
.2	8	.7	27										
.3	12	.8	31										
.4	16	.9	35										
				COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV
													53°

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

37°											26				5				13			
37°											.1				.2				.3			
37°											.3				.4				.5			
37°											.4				.5				.6			
37°											.5				.6				.7			
37°											.6				.7				.8			
37°											.7				.8				.9			
37°											.8				.9				.10			
37°											.9				.10				.11			
37°											.10				.11				.12			
37°											.11				.12				.13			
37°											.12				.13				.14			
37°											.13				.14				.15			
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37°											.15				.16				.17			
37°											.16				.17				.18			
37°											.17				.18				.19			
37°											.18				.19				.20			
37°											.19				.20				.21			
37°											.20				.21				.22			
37°											.21				.22				.23			
37°											.22				.23				.24			
37°											.23				.24				.25			
37°											.24				.25				.26			
37°											.25				.26				.27			
37°											.26				.27				.28			
37°											.27				.28				.29			
37°											.28				.29				.30			
37°											.29				.30				.31			
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37°											.34				.35				.36			
37°											.35				.36				.37			
37°											.36				.37				.38			
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37°											.48				.49				.50			
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37°											.98				.99				.100			
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37°											.101				.102				.103			
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37°											.118				.119				.120			
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37°											.202				.203				.204			
37°											.203				.204				.205			
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37°											.205				.206				.207			
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37°											.208				.209				.210			
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37°											.210				.211				.212			
37°											.211				.212				.213			
37°											.212				.213				.214			
37°											.213				.214				.215			
37°											.214				.215				.216			
37°											.215				.216				.2			

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

38°	38°										26				51°
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4	
0'	9.02528	0.10347		9.89653	9.89281		0.10719	9.78934		0.21066	9.28368				60'
1	9.02565	0.10357		9.89643	9.89307		0.10693	9.78950		0.21050	9.28342				59
2	9.02602	0.10367		9.89633	9.89333		0.10667	9.78967		0.21033	9.28317				58
3	9.02638	0.10376		9.89624	9.89359		0.10641	9.78983		0.21017	9.28291				57
4	9.02675	0.10386		9.89614	9.89385		0.10615	9.78999		0.21001	9.28265				56
5	9.02712	0.10396		9.89604	9.89411		0.10589	9.79015		0.20985	9.28239				55
6	9.02748	0.10406		9.89594	9.89437		0.10563	9.79031		0.20969	9.28213				54
7	9.02785	0.10416		9.89584	9.89463		0.10537	9.79047		0.20953	9.28187				53
8	9.02821	0.10426		9.89574	9.89489		0.10511	9.79063		0.20937	9.28161				52
9	9.02858	0.10436		9.89564	9.89515		0.10485	9.79079		0.20921	9.28135				51
10	9.02894	0.10446		9.89554	9.89541		0.10459	9.79095		0.20905	9.28109				50
1	9.02931	0.10456		9.89544	9.89567		0.10433	9.79111		0.20889	9.28083				49
2	9.02967	0.10466		9.89534	9.89593		0.10407	9.79128		0.20872	9.28057				48
3	9.03004	0.10476		9.89524	9.89619		0.10381	9.79144		0.20856	9.28031				47
4	9.03040	0.10486		9.89514	9.89645		0.10355	9.79160		0.20840	9.28005				46
5	9.03077	0.10495		9.89505	9.89671		0.10329	9.79176		0.20824	9.27979				45
6	9.03113	0.10505		9.89495	9.89697		0.10303	9.79192		0.20808	9.27953				44
7	9.03150	0.10515		9.89485	9.89723		0.10277	9.79208		0.20792	9.27927				43
8	9.03186	0.10525		9.89475	9.89749		0.10251	9.79224		0.20776	9.27901				42
9	9.03222	0.10535		9.89465	9.89775		0.10225	9.79240		0.20760	9.27875				41
20	9.03259	0.10545		9.89454	9.89801		0.10199	9.79256		0.20744	9.27848				40
1	9.03295	0.10555		9.89445	9.89827		0.10173	9.79272		0.20728	9.27822				39
2	9.03331	0.10565		9.89435	9.89853		0.10147	9.79288		0.20712	9.27796				38
3	9.03368	0.10575		9.89425	9.89879		0.10121	9.79304		0.20696	9.27770				37
4	9.03404	0.10585		9.89415	9.89905		0.10095	9.79319		0.20681	9.27744				36
5	9.03440	0.10595		9.89405	9.89931		0.10069	9.79335		0.20665	9.27718				35
6	9.03476	0.10605		9.89395	9.89957		0.10043	9.79351		0.20649	9.27692				34
7	9.03513	0.10615	10	9.89385	9.89983	26	0.10017	9.79367	16	0.20633	9.27666				33
8	9.03549	0.10625	.11	9.89375	9.90009	.13	0.09991	9.79383	.15	0.20617	9.27639				32
9	9.03585	0.10636	.22	9.89364	9.90035	.25	0.09965	9.79399	.28	0.20601	9.27613				31
30	9.03621	0.10646	.33	9.89354	9.90061	.38	0.09939	9.79415	.42	0.20585	9.27587				30
1	9.03657	0.10656	.44	9.89344	9.90086	.410	0.09914	9.79431	.46	0.20569	9.27561				29
2	9.03694	0.10666	.55	9.89334	9.90112	.513	0.09888	9.79447	.55	0.20553	9.27535				28
3	9.03730	0.10676	.66	9.89324	9.90138	.616	0.09862	9.79463	.69	0.20537	9.27508				27
4	9.03766	0.10686	.77	9.89314	9.90164	.718	0.09836	9.79478	.77	0.20522	9.27482				26
5	9.03802	0.10696	.88	9.89304	9.90190	.821	0.09810	9.79494	.83	0.20506	9.27456				25
6	9.03838	0.10706	.99	9.89294	9.90216	.923	0.09784	9.79510	.914	0.20490	9.27430				24
7	9.03874	0.10716		9.89284	9.90242		0.09758	9.79526		0.20474	9.27403				23
8	9.03910	0.10726		9.89274	9.90268		0.09732	9.79542		0.20458	9.27377				22
9	9.03946	0.10736		9.89264	9.90294		0.09706	9.79558		0.20442	9.27351				21
40	9.03982	0.10746		9.89254	9.90320		0.09680	9.79573		0.20427	9.27325				20
1	9.04018	0.10756		9.89244	9.90346		0.09654	9.79589		0.20411	9.27298				19
2	9.04054	0.10767		9.89233	9.90371		0.09629	9.79605		0.20395	9.27272				18
3	9.04090	0.10777		9.89223	9.90397		0.09603	9.79621		0.20379	9.27246				17
4	9.04126	0.10787		9.89213	9.90423		0.09577	9.79636		0.20364	9.27219				16
5	9.04162	0.10797		9.89203	9.90449		0.09551	9.79652		0.20348	9.27193				15
6	9.04198	0.10807		9.89193	9.90475		0.09525	9.79668		0.20332	9.27167				14
7	9.04234	0.10817		9.89183	9.90501		0.09499	9.79684		0.20316	9.27140				13
8	9.04270	0.10827		9.89173	9.90527		0.09473	9.79699		0.20301	9.27114				12
9	9.04306	0.10838		9.89162	9.90553		0.09447	9.79715		0.20285	9.27088				11
50	9.04341	0.10848		9.89152	9.90578		0.09422	9.79731		0.20269	9.27061				10
1	9.04377	0.10858		9.89142	9.90604		0.09396	9.79746		0.20254	9.27035				9
2	9.04413	0.10868		9.89132	9.90630		0.09370	9.79762		0.20238	9.27008				8
3	9.04449	0.10878		9.89122	9.90656		0.09344	9.79778		0.20222	9.26982				7
4	9.04485	0.10888		9.89112	9.90682		0.09318	9.79793		0.20207	9.26956				6
5	9.04520	0.10899		9.89101	9.90708		0.09292	9.79809		0.20191	9.26929				5
6	9.04556	0.10909		9.89091	9.90734		0.09266	9.79825		0.20175	9.26903				4
7	9.04592	0.10919		9.89081	9.90759		0.09241	9.79840		0.20160	9.26876				3
8	9.04628	0.10929		9.89071	9.90785		0.09215	9.79856		0.20144	9.26850				2
9	9.04663	0.10940		9.89060	9.90811		0.09189	9.79872		0.20128	9.26823				1
60	9.04699	0.10950		9.89050	9.90837		0.09163	9.79887		0.20113	9.26797				0
36				COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV		51°
.1	4	.5	18												
.2	7	.6	22												
.3	11	.7	25												
.4	14	.8	28												
		.9	32												

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

39°	39°										27			
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.3	.5	.14
0'	9.04699	0.10950		9.89050	9.90837		0.09163	9.79887		0.20113	.1	.3	.5	.14
1	9.04735	0.10960		9.89040	9.90863		0.09137	9.79903		0.20097	.2	.5	.7	.18
2	9.04770	0.10970		9.89030	9.90889		0.09111	9.79918		0.20082	.3	.8	.9	.22
3	9.04806	0.10980		9.89020	9.90914		0.09086	9.79934		0.20066	.4	.11	.9	.24
4	9.04842	0.10991		9.89009	9.90940		0.09060	9.79950		0.20050				
5	9.04877	0.11001		9.88999	9.90966		0.09034	9.79965		0.20035				
6	9.04913	0.11011		9.88989	9.90992		0.09008	9.79981		0.20019				
7	9.04948	0.11021		9.88979	9.91018		0.08982	9.79996		0.20004				
8	9.04984	0.11032		9.88968	9.91043		0.08957	9.80012		0.19988				
9	9.05019	0.11042		9.88958	9.91069		0.08931	9.80027		0.19973				
10	9.05055	0.11052		9.88948	9.91095		0.08905	9.80043		0.19957				
1	9.05090	0.11063		9.88937	9.91121		0.08879	9.80058		0.19942				
2	9.05126	0.11073		9.88927	9.91147		0.08853	9.80074		0.19926				
3	9.05161	0.11083		9.88917	9.91172		0.08828	9.80089		0.19911				
4	9.05197	0.11094		9.88906	9.91198		0.08802	9.80105		0.19895				
5	9.05232	0.11104		9.88896	9.91224		0.08776	9.80120		0.19880				
6	9.05268	0.11114		9.88886	9.91250		0.08750	9.80136		0.19864				
7	9.05303	0.11125		9.88875	9.91276		0.08724	9.80151		0.19849				
8	9.05339	0.11135		9.88865	9.91301		0.08699	9.80166		0.19834				
9	9.05374	0.11145		9.88855	9.91327		0.08673	9.80182		0.19818				
20	9.05409	0.11156		9.88844	9.91353		0.08647	9.80197		0.19803				
1	9.05445	0.11166		9.88834	9.91379		0.08621	9.80213		0.19787				
2	9.05480	0.11176		9.88824	9.91404		0.08596	9.80228		0.19772				
3	9.05515	0.11187		9.88813	9.91430		0.08570	9.80244		0.19756				
4	9.05551	0.11197		9.88803	9.91456		0.08544	9.80259		0.19741				
5	9.05586	0.11207		9.88793	9.91482		0.08518	9.80274		0.19726				
6	9.05621	0.11218		9.88782	9.91507		0.08493	9.80290		0.19710				
7	9.05656	0.11228	10	9.88772	9.91533	26	0.08467	9.80305	15	0.19695				
8	9.05692	0.11239	.11	9.88761	9.91559	.13	0.08441	9.80320	.2	0.19680				
9	9.05727	0.11249	.22	9.88751	9.91585	.25	0.08415	9.80336	.3	0.19664				
30	9.05762	0.11259	.33			.38			.4					
1	9.05797	0.11270	.44	9.88741	9.91610	.410	0.08390	9.80351	.4	0.19649				
2	9.05832	0.11280	.55	9.88730	9.91636	.513	0.08364	9.80366	.5	0.19634				
3	9.05867	0.11291	.66	9.88720	9.91662	.616	0.08338	9.80382	.6	0.19618				
4	9.05903	0.11301	.77	9.88709	9.91688	.718	0.08312	9.80397	.7	0.19603				
5	9.05938	0.11312	.88	9.88699	9.91713	.821	0.08287	9.80412	.8	0.19588				
6	9.05973	0.11322	.99	9.88688	9.91739	.923	0.08261	9.80428	.9	0.19572				
7	9.06008	0.11332		9.88678	9.91765		0.08235	9.80443		0.19557				
8	9.06043	0.11343		9.88668	9.91791		0.08209	9.80458		0.19542				
9	9.06078	0.11353		9.88657	9.91816		0.08184	9.80473		0.19527				
40	9.06113	0.11364		9.88647	9.91842		0.08158	9.80489		0.19511				
1	9.06148	0.11374		9.88636	9.91868		0.08132	9.80504		0.19496				
2	9.06183	0.11385		9.88626	9.91893		0.08107	9.80519		0.19481				
3	9.06218	0.11395		9.88615	9.91919		0.08081	9.80534		0.19466				
4	9.06253	0.11406		9.88605	9.91945		0.08055	9.80550		0.19450				
5	9.06288	0.11416		9.88594	9.91971		0.08029	9.80565		0.19435				
6	9.06323	0.11427		9.88584	9.91996		0.08004	9.80580		0.19420				
7	9.06358	0.11437		9.88573	9.92022		0.07978	9.80595		0.19405				
8	9.06393	0.11448		9.88563	9.92048		0.07952	9.80610		0.19390				
9	9.06428	0.11458		9.88552	9.92073		0.07927	9.80625		0.19375				
50	9.06462	0.11469		9.88542	9.92099		0.07901	9.80641		0.19359				
1	9.06497	0.11479		9.88531	9.92125		0.07875	9.80656		0.19344				
2	9.06532	0.11490		9.88521	9.92150		0.07850	9.80671		0.19329				
3	9.06567	0.11501		9.88510	9.92176		0.07824	9.80686		0.19314				
4	9.06602	0.11511		9.88499	9.92202		0.07798	9.80701		0.19299				
5	9.06637	0.11522		9.88489	9.92227		0.07773	9.80716		0.19284				
6	9.06671	0.11532		9.88478	9.92253		0.07747	9.80731		0.19269				
7	9.06706	0.11543		9.88468	9.92279		0.07721	9.80746		0.19254				
8	9.06741	0.11553		9.88457	9.92304		0.07696	9.80762		0.19238				
9	9.06776	0.11564		9.88447	9.92330		0.07670	9.80777		0.19223				
60	9.06810	0.11575		9.88436	9.92356		0.07644	9.80792		0.19208				
35														
.1	.4													
.2	.7													
.3	11													
.4	14													
COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV	50°				

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

40°	40°										27			
	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	.2	.3	.4
0'	9.06810	0.11575		9.88425	9.92381		0.07619	9.80807		0.19193	9.25190			60'
1	9.06845	0.11585		9.88415	9.92407		0.07593	9.80822		0.19178	9.25163			59
2	9.06880	0.11596		9.88404	9.92433		0.07567	9.80837		0.19163	9.25135			58
3	9.06914	0.11606		9.88394	9.92458		0.07542	9.80852		0.19148	9.25108			57
4	9.06949	0.11617		9.88383	9.92484		0.07516	9.80867		0.19133	9.25081			56
5	9.06984	0.11628		9.88372	9.92510		0.07490	9.80882		0.19118	9.25054			55
6	9.07018	0.11638		9.88362	9.92535		0.07465	9.80897		0.19103	9.25027			54
7	9.07053	0.11649		9.88351	9.92561		0.07439	9.80912		0.19088	9.25000			53
8	9.07087	0.11660		9.88340	9.92587		0.07413	9.80927		0.19073	9.24973			52
9	9.07122	0.11670		9.88330	9.92612		0.07388	9.80942		0.19058	9.24945			51
10	9.07157	0.11681		9.88319	9.92638		0.07362	9.80957		0.19043	9.24918			50
1	9.07191	0.11692		9.88308	9.92663		0.07337	9.80972		0.19028	9.24891			49
2	9.07226	0.11702		9.88298	9.92689		0.07311	9.80987		0.19013	9.24864			48
3	9.07260	0.11713		9.88287	9.92715		0.07285	9.81002		0.18998	9.24837			47
4	9.07295	0.11724		9.88276	9.92740		0.07260	9.81017		0.18983	9.24809			46
5	9.07329	0.11734		9.88266	9.92766		0.07234	9.81032		0.18968	9.24782			45
6	9.07364	0.11745		9.88255	9.92792		0.07208	9.81046		0.18954	9.24755			44
7	9.07398	0.11756		9.88244	9.92817		0.07183	9.81061		0.18939	9.24728			43
8	9.07433	0.11766		9.88234	9.92843		0.07157	9.81076		0.18924	9.24700			42
9	9.07467	0.11777		9.88223	9.92868		0.07132	9.81091		0.18909	9.24673			41
20	9.07501	0.11788		9.88212	9.92894		0.07106	9.81106		0.18894	9.24646			40
1	9.07536	0.11799		9.88201	9.92920		0.07080	9.81121		0.18879	9.24618			39
2	9.07570	0.11809		9.88191	9.92945		0.07055	9.81136		0.18864	9.24591			38
3	9.07604	0.11820		9.88180	9.92971		0.07029	9.81151		0.18849	9.24564			37
4	9.07639	0.11831		9.88169	9.92996		0.07004	9.81166		0.18834	9.24536			36
5	9.07673	0.11842		9.88158	9.93022		0.06978	9.81180		0.18820	9.24509			35
6	9.07707	0.11852		9.88148	9.93048		0.06952	9.81195		0.18805	9.24482			34
7	9.07742	0.11863	11	9.88137	9.93073	26	0.06927	9.81210	14	0.18790	9.24454			33
8	9.07776	0.11874	.1 1	9.88126	9.93099	.1 3	0.06901	9.81225	.1 1	0.18775	9.24427			32
9	9.07810	0.11885	.2 2	9.88115	9.93124	.2 5	0.06876	9.81240	.2 3	0.18760	9.24400			31
30	9.07845	0.11895	.3 3			.3 8			.3 4					
1	9.07879	0.11906	.4 4	9.88105	9.93150	.4 10	0.06850	9.81254	.4 6	0.18746	9.24372			30
2	9.07913	0.11917	.5 6	9.88094	9.93175	.5 13	0.06825	9.81269	.5 7	0.18731	9.24345			29
3	9.07947	0.11928	.6 7	9.88083	9.93201	.6 15	0.06799	9.81284	.6 8	0.18716	9.24317			28
4	9.07981	0.11939	.7 8	9.88072	9.93227	.7 18	0.06773	9.81299	.7 10	0.18701	9.24290			27
5	9.08016	0.11949	.8 9	9.88061	9.93252	.8 20	0.06748	9.81314	.8 11	0.18686	9.24263			26
6	9.08050	0.11960	.9 10	9.88051	9.93278	.9 23	0.06722	9.81328	.9 13	0.18672	9.24235			25
7	9.08084	0.11971		9.88040	9.93303		0.06697	9.81343		0.18657	9.24208			24
8	9.08118	0.11982		9.88029	9.93329		0.06671	9.81358		0.18642	9.24181			23
9	9.08152	0.11993		9.88018	9.93354		0.06646	9.81372		0.18628	9.24153			22
				9.88007	9.93380		0.06620	9.81387		0.18613	9.24125			21
40	9.08186	0.12004		9.87996	9.93406		0.06594	9.81402		0.18598	9.24098			20
1	9.08220	0.12016		9.87985	9.93431		0.06569	9.81417		0.18583	9.24070			19
2	9.08254	0.12025		9.87975	9.93457		0.06543	9.81431		0.18568	9.24043			18
3	9.08288	0.12036		9.87964	9.93482		0.06518	9.81446		0.18554	9.24015			17
4	9.08322	0.12047		9.87953	9.93508		0.06492	9.81461		0.18539	9.23988			16
5	9.08357	0.12058		9.87942	9.93533		0.06467	9.81475		0.18525	9.23960			15
6	9.08391	0.12069		9.87931	9.93559		0.06441	9.81490		0.18510	9.23932			14
7	9.08425	0.12080		9.87920	9.93584		0.06416	9.81505		0.18495	9.23905			13
8	9.08458	0.12091		9.87909	9.93610		0.06390	9.81519		0.18481	9.23877			12
9	9.08492	0.12102		9.87898	9.93636		0.06364	9.81534		0.18466	9.23850			11
50	9.08526	0.12113		9.87887	9.93661		0.06339	9.81549		0.18451	9.23822			10
1	9.08560	0.12123		9.87877	9.93687		0.06313	9.81563		0.18437	9.23794			9
2	9.08594	0.12134		9.87866	9.93712		0.06288	9.81578		0.18422	9.23767			8
3	9.08628	0.12145		9.87855	9.93738		0.06262	9.81592		0.18408	9.23739			7
4	9.08662	0.12156		9.87844	9.93763		0.06237	9.81607		0.18393	9.23712			6
5	9.08696	0.12167		9.87833	9.93789		0.06211	9.81622		0.18378	9.23684			5
6	9.08730	0.12178		9.87822	9.93814		0.06186	9.81636		0.18364	9.23656			4
7	9.08764	0.12189		9.87811	9.93840		0.06160	9.81651		0.18349	9.23628			3
8	9.08797	0.12200		9.87800	9.93865		0.06135	9.81665		0.18335	9.23601			2
9	9.08831	0.12211		9.87789	9.93891		0.06109	9.81680		0.18320	9.23573			1
60	9.08865	0.12222		9.87778	9.93916		0.06084	9.81694		0.18306	9.23545			0
34	.1 3	.5 17		COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV	49°
.1	3	6 20												
.2	7	7 24												
.3	10	8 27												
.4	14	9 31												

TABELA 20
LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

41°											28			
41°	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	3	.5	14
											.2	6	.7	17
											.3	8	.8	20
											.4	11	.9	22
0'	9.08865	0.12222		9.87778	9.93916		0.06084	9.81694		0.18306	9.23545			60'
1	9.08899	0.12233		9.87767	9.93942		0.06058	9.81709		0.18291	9.23518			59
2	9.08933	0.12244		9.87756	9.93967		0.06033	9.81723		0.18277	9.23490			58
3	9.08966	0.12255		9.87745	9.93993		0.06007	9.81738		0.18262	9.23462			57
4	9.09000	0.12266		9.87734	9.94018		0.05982	9.81752		0.18248	9.23434			56
5	9.09034	0.12277		9.87723	9.94044		0.05956	9.81767		0.18233	9.23407			55
6	9.09067	0.12288		9.87712	9.94069		0.05931	9.81781		0.18219	9.23379			54
7	9.09101	0.12299		9.87701	9.94095		0.05905	9.81796		0.18204	9.23351			53
8	9.09135	0.12310		9.87690	9.94120		0.05880	9.81810		0.18190	9.23323			52
9	9.09169	0.12321		9.87679	9.94146		0.05854	9.81825		0.18175	9.23295			51
10	9.09202	0.12332		9.87668	9.94171		0.05829	9.81839		0.18161	9.23268			50
1	9.09236	0.12343		9.87657	9.94197		0.05803	9.81854		0.18146	9.23240			49
2	9.09269	0.12354		9.87646	9.94222		0.05778	9.81868		0.18132	9.23212			48
3	9.09303	0.12365		9.87635	9.94248		0.05752	9.81882		0.18118	9.23184			47
4	9.09337	0.12376		9.87624	9.94273		0.05727	9.81897		0.18103	9.23156			46
5	9.09370	0.12387		9.87613	9.94299		0.05701	9.81911		0.18089	9.23128			45
6	9.09404	0.12399		9.87601	9.94324		0.05676	9.81926		0.18074	9.23100			44
7	9.09437	0.12410		9.87590	9.94350		0.05650	9.81940		0.18060	9.23073			43
8	9.09471	0.12421		9.87579	9.94375		0.05625	9.81954		0.18046	9.23045			42
9	9.09504	0.12432		9.87568	9.94401		0.05599	9.81969		0.18031	9.23017			41
20	9.09538	0.12443		9.87557	9.94426		0.05574	9.81983		0.18017	9.22989			40
1	9.09571	0.12454		9.87546	9.94452		0.05548	9.81998		0.18002	9.22961			39
2	9.09605	0.12465		9.87535	9.94477		0.05523	9.82012		0.17988	9.22933			38
3	9.09638	0.12476		9.87524	9.94503		0.05497	9.82026		0.17974	9.22905			37
4	9.09672	0.12487		9.87513	9.94528		0.05472	9.82041		0.17959	9.22877			36
5	9.09705	0.12499		9.87501	9.94554		0.05446	9.82055		0.17945	9.22849			35
6	9.09739	0.12510		9.87490	9.94579		0.05421	9.82069		0.17931	9.22821			34
7	9.09772	0.12521		9.87479	9.94604		0.05396	9.82084		0.17916	9.22793			33
8	9.09805	0.12532		9.87468	9.94630		0.05370	9.82098		0.17902	9.22765			32
9	9.09839	0.12543		9.87457	9.94655		0.05345	9.82112		0.17888	9.22737			31
30	9.09872	0.12554		9.87446	9.94681		0.05319	9.82126		0.17874	9.22709			30
1	9.09905	0.12566		9.87434	9.94706		0.05294	9.82141		0.17859	9.22681			29
2	9.09939	0.12577		9.87423	9.94732		0.05268	9.82155		0.17845	9.22653			28
3	9.09972	0.12588		9.87412	9.94757		0.05243	9.82169		0.17831	9.22625			27
4	9.10005	0.12599		9.87401	9.94783		0.05217	9.82184		0.17816	9.22597			26
5	9.10039	0.12610		9.87390	9.94808		0.05192	9.82198		0.17802	9.22569			25
6	9.10072	0.12622		9.87378	9.94834		0.05166	9.82212		0.17788	9.22540			24
7	9.10105	0.12633		9.87367	9.94859		0.05141	9.82226		0.17774	9.22512			23
8	9.10138	0.12644		9.87356	9.94884		0.05116	9.82240		0.17760	9.22484			22
9	9.10172	0.12655		9.87345	9.94910		0.05090	9.82255		0.17745	9.22456			21
40	9.10205	0.12666		9.87334	9.94935		0.05065	9.82269		0.17731	9.22428			20
1	9.10238	0.12678		9.87322	9.94961		0.05039	9.82283		0.17717	9.22400			19
2	9.10271	0.12689		9.87311	9.94986		0.05014	9.82297		0.17703	9.22372			18
3	9.10304	0.12700		9.87300	9.95012		0.04988	9.82311		0.17689	9.22343			17
4	9.10337	0.12711		9.87289	9.95037		0.04963	9.82326		0.17674	9.22315			16
5	9.10371	0.12723		9.87277	9.95062		0.04938	9.82340		0.17660	9.22287			15
6	9.10404	0.12734		9.87266	9.95088		0.04912	9.82354		0.17646	9.22259			14
7	9.10437	0.12745		9.87255	9.95113		0.04887	9.82368		0.17632	9.22231			13
8	9.10470	0.12757		9.87243	9.95139		0.04861	9.82382		0.17618	9.22202			12
9	9.10503	0.12768		9.87232	9.95165		0.04836	9.82396		0.17604	9.22174			11
50	9.10536	0.12779		9.87221	9.95190		0.04810	9.82410		0.17590	9.22146			10
1	9.10569	0.12791		9.87209	9.95215		0.04785	9.82424		0.17576	9.22118			9
2	9.10602	0.12802		9.87198	9.95240		0.04760	9.82439		0.17561	9.22089			8
3	9.10635	0.12813		9.87187	9.95266		0.04734	9.82453		0.17547	9.22061			7
4	9.10668	0.12825		9.87175	9.95291		0.04709	9.82467		0.17533	9.22033			6
5	9.10701	0.12836		9.87164	9.95317		0.04683	9.82481		0.17519	9.22004			5
6	9.10734	0.12847		9.87153	9.95342		0.04658	9.82495		0.17505	9.21976			4
7	9.10767	0.12859		9.87141	9.95368		0.04632	9.82509		0.17491	9.21948			3
8	9.10800	0.12870		9.87130	9.95393		0.04607	9.82523		0.17477	9.21919			2
9	9.10833	0.12881		9.87119	9.95418		0.04582	9.82537		0.17463	9.21891			1
60	9.10866	0.12893		9.87107	9.95444		0.04556	9.82551		0.17449	9.21863			0
33	.5 17													
.1	3													
.2	7													
.3	10													
.4	13													
COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC	SEMV					
48°											48°			

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

42°											29					.6		.15	
42°											.1					.6		.17	
42°											.2					.7		.20	
42°											.3					.8		.23	
42°											.4					.9		.26	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
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42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
42°											.4					.9		.23	
42°											.1					.6		.15	
42°											.2					.7		.17	
42°											.3					.8		.20	
4																			

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

43°											29					.5		.16	

TABELA 20

LOGARITMOS DE FUNÇÕES TRIGONOMÉTRICAS

44°											30				15	
44°	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.1	3	.5	6	.7	18
											.2	6	.6	7	.8	21
44°	SEMV	SEC	PP	COS	TG	PP	COTG	SEN	PP	COSEC	.3	9	.9	8	.9	24
											.4	12	.9	9	.9	27
0	9.14715	0.14307		9.85693	9.98484		0.01516	9.84177		0.15823			9.18376			60
1	9.14746	0.14319		9.85681	9.98509		0.01491	9.84190		0.15810			9.18346			59
2	9.14778	0.14331		9.85669	9.98534		0.01466	9.84203		0.15797			9.18316			58
3	9.14809	0.14343		9.85657	9.98560		0.01440	9.84216		0.15784			9.18286			57
4	9.14840	0.14355		9.85645	9.98585		0.01415	9.84229		0.15771			9.18256			56
5	9.14871	0.14368		9.85632	9.98610		0.01390	9.84242		0.15758			9.18227			55
6	9.14902	0.14380		9.85620	9.98635		0.01365	9.84255		0.15745			9.18197			54
7	9.14934	0.14392		9.85608	9.98661		0.01339	9.84269		0.15731			9.18167			53
8	9.14965	0.14404		9.85596	9.98686		0.01314	9.84282		0.15718			9.18137			52
9	9.14996	0.14417		9.85583	9.98711		0.01289	9.84295		0.15705			9.18107			51
10	9.15027	0.14429		9.85571	9.98736		0.01264	9.84308		0.15692			9.18077			50
1	9.15058	0.14441		9.85559	9.98762		0.01238	9.84321		0.15679			9.18047			49
2	9.15089	0.14453		9.85547	9.98787		0.01213	9.84334		0.15666			9.18018			48
3	9.15120	0.14466		9.85534	9.98812		0.01188	9.84347		0.15653			9.17988			47
4	9.15152	0.14478		9.85522	9.98838		0.01162	9.84360		0.15640			9.17958			46
5	9.15183	0.14490		9.85510	9.98863		0.01137	9.84372		0.15628			9.17928			45
6	9.15214	0.14503		9.85497	9.98888		0.01112	9.84385		0.15615			9.17898			44
7	9.15245	0.14515		9.85485	9.98913		0.01087	9.84398		0.15602			9.17868			43
8	9.15276	0.14527		9.85473	9.98939		0.01061	9.84411		0.15589			9.17838			42
9	9.15307	0.14540		9.85460	9.98964		0.01036	9.84424		0.15576			9.17808			41
20	9.15338	0.14552		9.85448	9.98989		0.01011	9.84437		0.15563			9.17778			40
1	9.15369	0.14564		9.85436	9.99015		0.00985	9.84450		0.15550			9.17748			39
2	9.15400	0.14577		9.85423	9.99040		0.00960	9.84463		0.15537			9.17718			38
3	9.15431	0.14589		9.85411	9.99065		0.00935	9.84476		0.15524			9.17688			37
4	9.15462	0.14601		9.85399	9.99090		0.00910	9.84489		0.15511			9.17658			36
5	9.15493	0.14614		9.85386	9.99116		0.00884	9.84502		0.15498			9.17628			35
6	9.15524	0.14626		9.85374	9.99141		0.00859	9.84515		0.15485			9.17598			34
7	9.15555	0.14639		9.85361	9.99166		0.00834	9.84528		0.15472			9.17568			33
8	9.15585	0.14651		9.85349	9.99191		0.00809	9.84540		0.15460			9.17538			32
9	9.15616	0.14663		9.85337	9.99217		0.00783	9.84553		0.15447			9.17507			31
30	9.15647	0.14676		9.85324	9.99242		0.00758	9.84566		0.15434			9.17477			30
1	9.15678	0.14688		9.85312	9.99267		0.00733	9.84579		0.15421			9.17447			29
2	9.15709	0.14701		9.85299	9.99293		0.00707	9.84592		0.15408			9.17417			28
3	9.15740	0.14713		9.85287	9.99318		0.00682	9.84605		0.15395			9.17387			27
4	9.15771	0.14726		9.85275	9.99343		0.00657	9.84618		0.15382			9.17357			26
5	9.15801	0.14738		9.85262	9.99368		0.00632	9.84630		0.15370			9.17326			25
6	9.15832	0.14750		9.85250	9.99394		0.00606	9.84643		0.15357			9.17296			24
7	9.15863	0.14763		9.85237	9.99419		0.00581	9.84656		0.15344			9.17266			23
8	9.15894	0.14775		9.85225	9.99444		0.00556	9.84669		0.15331			9.17236			22
9	9.15925	0.14788		9.85212	9.99469		0.00531	9.84682		0.15318			9.17206			21
40	9.15955	0.14800		9.85200	9.99495		0.00506	9.84694		0.15306			9.17175			20
1	9.15986	0.14813		9.85187	9.99520		0.00480	9.84707		0.15293			9.17145			19
2	9.16017	0.14825		9.85175	9.99545		0.00455	9.84720		0.15280			9.17115			18
3	9.16048	0.14838		9.85162	9.99570		0.00430	9.84733		0.15267			9.17085			17
4	9.16078	0.14850		9.85150	9.99596		0.00404	9.84745		0.15255			9.17054			16
5	9.16109	0.14863		9.85137	9.99621		0.00379	9.84758		0.15242			9.17024			15
6	9.16140	0.14875		9.85125	9.99646		0.00354	9.84771		0.15229			9.16994			14
7	9.16170	0.14888		9.85112	9.99672		0.00328	9.84784		0.15216			9.16963			13
8	9.16201	0.14900		9.85100	9.99697		0.00303	9.84796		0.15204			9.16933			12
9	9.16232	0.14913		9.85087	9.99722		0.00278	9.84809		0.15191			9.16903			11
50	9.16262	0.14926		9.85074	9.99747		0.00253	9.84822		0.15178			9.16872			10
1	9.16293	0.14938		9.85062	9.99773		0.00227	9.84834		0.15166			9.16842			9
2	9.16324	0.14951		9.85049	9.99798		0.00202	9.84847		0.15153			9.16812			8
3	9.16354	0.14963		9.85037	9.99823		0.00177	9.84860		0.15140			9.16781			7
4	9.16385	0.14976		9.85024	9.99848		0.00152	9.84873		0.15127			9.16751			6
5	9.16415	0.14988		9.85012	9.99874		0.00126	9.84885		0.15115			9.16720			5
6	9.16446	0.15001		9.84999	9.99899		0.00101	9.84898		0.15102			9.16690			4
7	9.16476	0.15014		9.84986	9.99924		0.00076	9.84911		0.15089			9.16659			3
8	9.16507	0.15026		9.84974	9.99949		0.00051	9.84923		0.15077			9.16629			2
9	9.16537	0.15039		9.84961	9.99975		0.00025	9.84936		0.15064			9.16598			1
60	9.16568	0.15051		9.84949	0.00000		0.00000	9.84949		0.15051			9.16568			0
31	.5	18	45°											SEMV	45°	
.1	3	.6	COSEC	PP	SEN	COTG	PP	TG	COS	PP	SEC					
.2	6	.7														
.3	9	.8														
.4	12	.9														