

radio al seno de la mitad del arco dado ; así este mismo seno al seno verso del mismo arco : luego obrando con logarithmos , (34) si se duplica el logarithmo del seno de la mitad del arco dado, y de este duplo se resta el logarithmo del semiradio , el residuo será el logarithmo del seno verso del arco dado.

Exemplo. Pídesse el logarithmo del seno verso del arco de 50. grados. Hallese el logarithmo del seno de 25. grados, que son la mitad de 50. Duplique se , escribiendole dos veces, y sumandole : restese de esta suma el logarithmo de la mitad del radio, que por la razon que luego diré es 9. 6989700. y el residuo 9. 5529266. será el logarithmo del seno verso del arco de 50. grados.

La razon , porque el logarithmo del semiradio es 9. 6989.&c. es, porque su logarithmo es el que en las tablas logarithmicas corresponde al numero 5000. solo que la característica ha de ser 9. por haverse supuesto quando se fabricaron los logarithmos, ser el radio en numeros absolutos 1000000000. y el semiradio 500000000. con que constando éste de 10. letras, la característica de su logarithmo ha de ser 9. segun lo dicho à lo ultimo de la *prop.* 10.

Esta operacion se hará mas brevemente usando de el complemento logarithmico del semiradio , el qual complemento es igual al seno primero del numero

Logar. de 2.	0.3010299.
Logar. de 25	9.6259483.
Logar. de 25.	9.6259483.
Logar. del sen. vers.	9.5529265.

2. Ecrivase pues en primer lugar el logarithmo del numero 2. como se ve: escrivase despues dos veces el logarithmo del seno de 25. grad. sumense las tres partidas ; y la suma , quitada la unidad primera de la característica, será 9. 552. &c. logarithmo del seno verso de 50. grados.

CANON

TRIGONOMETRICO
CON LOS SENOS, Y
Tangentes Logarithmicas,
suponiendo ser el Radio

10000000.

Min.	0 Grad.		Min.	89. Grad.	
	Seno.	Tangente.		Seno.	Tangente.
0	0	0	60	10.0000000	Infinita.
1	6.4637261	6.4637261	59	9.9999999	13.5362739
2	6.7647561	6.7647562	58	9.9999999	13.2352438
3	6.9408473	6.9408475	57	9.9999998	13.0591525
4	7.0657860	7.0657863	56	9.9999997	12.9342137
5	7.1626960	7.1626964	55	9.9999995	12.8373036
6	7.2418771	7.2418778	54	9.9999993	12.7581222
7	7.3088239	7.3088248	53	9.9999991	12.6911752
8	7.3668157	7.3668169	52	9.9999988	12.6331831
9	7.4176681	7.4179696	51	9.9999985	12.5820304
10	7.4637255	7.4637273	50	9.9999982	12.5362727
11	7.5051181	7.5051203	49	9.9999978	12.4948797
12	7.5429065	7.5429091	48	9.9999974	12.4570909
13	7.5776684	7.5776715	47	9.9999969	12.4223285
14	7.6098530	7.6098566	46	9.9999964	12.3901434
15	7.6398160	7.6398201	45	9.9999959	12.3601799
16	7.6678445	7.6678492	44	9.9999953	12.3321508
17	7.6941733	7.6941786	43	9.9999947	12.3058214
18	7.7189966	7.7190026	42	9.9999940	12.2809974
19	7.7424775	7.7424841	41	9.9999934	12.2575159
20	7.7647537	7.7647610	40	9.9999927	12.2352390
21	7.7859427	7.7859508	39	9.9999919	12.2140492
22	7.8061458	7.8061547	38	9.9999911	12.1938453
23	7.8254507	7.8254604	37	9.9999903	12.1745396
24	7.8439338	7.8439444	36	9.9999894	12.1560556
25	7.8616623	7.8616738	35	9.9999885	12.1383262
26	7.8786953	7.8787077	34	9.9999876	12.1212923
27	7.8950854	7.8950988	33	9.9999866	12.1049012
28	7.9108793	7.9108938	32	9.9999856	12.0891062
29	7.9261190	7.9261344	31	9.9999845	12.0738656
30	7.9408419	7.9408584	30	9.9999835	12.0591416

Min.	0 Grad.		Min.	89. Grad.	
	Seno.	Tangente.		Seno.	Tangente.
30	7.9408419	7.9408584	30	9.9999835	12.0591416
31	7.9550819	7.9550996	29	9.9999823	12.0449004
32	7.9688698	7.9688886	28	9.9999812	12.0311114
33	7.9822334	7.9822534	27	9.9999800	12.0177466
34	7.9951980	7.9952192	26	9.9999788	12.0047808
35	8.0077867	8.0078092	25	9.9999775	11.9921908
36	8.0200207	8.0200445	24	9.9999762	11.9799555
37	8.0319195	8.0319446	23	9.9999748	11.9680554
38	8.0435009	8.0435274	22	9.9999735	11.9564726
39	8.0547814	8.0548094	21	9.9999721	11.9451906
40	8.0657763	8.0658057	20	9.9999706	11.9341943
41	8.0764997	8.0765306	19	9.9999691	11.9234694
42	8.0869646	8.0869970	18	9.9999676	11.9130030
43	8.0971832	8.0972172	17	9.9999660	11.9027828
44	8.1071669	8.1072025	16	9.9999644	11.8927975
45	8.1169262	8.1169634	15	9.9999628	11.8830366
46	8.1264710	8.1265099	14	9.9999611	11.8734901
47	8.1358104	8.1358510	13	9.9999594	11.8641490
48	8.1449532	8.1449956	12	9.9999577	11.8550044
49	8.1539075	8.1539516	11	9.9999559	11.8460484
50	8.1626808	8.1627267	10	9.9999541	11.8372733
51	8.1712804	8.1713282	9	9.9999522	11.8286718
52	8.1797129	8.1797626	8	9.9999503	11.8202374
53	8.1879848	8.1880364	7	9.9999484	11.8119636
54	8.1961020	8.1961556	6	9.9999464	11.8038444
55	8.2040703	8.2041259	5	9.9999444	11.7958741
56	8.2118949	8.2119526	4	9.9999424	11.7880474
57	8.2195811	8.2196408	3	9.9999403	11.7803592
58	8.2271335	8.2271953	2	9.9999382	11.7728047
59	8.2345568	8.2346208	1	9.9999360	11.7653792
60	8.2418553	8.2419215	0	9.9999338	11.7580785

Min.	1. Gaad.		Min.	88. Grad.	
	Seno.	Tangente.		Seno.	Tangente.
0	8.2418553	8.2419215	60	9.9999338	11.7580785
1	8.2490332	8.2491015	59	9.9999316	11.7508985
2	8.2560943	8.2561649	58	9.9999294	11.7438351
3	8.2630424	8.2631153	57	9.9999271	11.7368847
4	8.2698810	8.2699563	56	9.9999247	11.7300437
5	8.2766136	8.2766912	55	9.9999224	11.7233088
6	8.2832434	8.2833234	54	9.9999200	11.7166766
7	8.2897734	8.2898559	53	9.9999175	11.7101441
8	8.2962067	8.2962917	52	9.9999150	11.7037083
9	8.3025460	8.3026335	51	9.9999125	11.6973665
10	8.3087941	8.3088842	50	9.9999100	11.6911158
11	8.3149536	8.3150462	49	9.9999074	11.6849538
12	8.3210269	8.3211221	48	9.9999047	11.6788779
13	8.3270163	8.3271143	47	9.9999021	11.6728857
14	8.3329243	8.3330241	46	9.9998994	11.6669751
15	8.3387529	8.3388563	45	9.9998966	11.6611437
16	8.3445043	8.3446105	44	9.9998939	11.6553895
17	8.3501805	8.3502895	43	9.9998911	11.6497105
18	8.3557835	8.3558953	42	9.9998882	11.6441047
19	8.3613150	8.3614297	41	9.9998853	11.6385703
20	8.3667769	8.3668945	40	9.9998824	11.6331055
21	8.3721710	8.3722915	39	9.9998794	11.6277085
22	8.3774988	8.3776223	38	9.9998764	11.6223777
23	8.3827620	8.3828886	37	9.9998734	11.6171114
24	8.3879622	8.3880918	36	9.9998703	11.6119082
25	8.3931008	8.3932336	35	9.9998672	11.6067664
26	8.3981793	8.3983152	34	9.9998641	11.6016848
27	8.4031990	8.4033381	33	9.9998609	11.5966619
28	8.4081614	8.4083037	32	9.9998577	11.5916963
29	8.4130676	8.4132132	31	9.9998544	11.5867868
30	8.4179190	8.4180679	30	9.9998512	11.5819321

Min.	1. Grad.		Min.	88. Grad.	
	Seno.	Tangente.		Seno.	Tangente.
30	8.4179190	8.4180679	30	9.9998512	11.5819321
31	8.4227168	8.4228690	29	9.9998478	11.5771310
32	8.4274621	8.4276176	28	9.9998445	11.5723824
33	8.4321561	8.4323150	27	9.9998411	11.5676850
34	8.4367999	8.4369622	26	9.9998376	11.5630376
35	8.4413944	8.4415603	25	9.9998342	11.5584397
36	8.4459409	8.4461103	24	9.9998306	11.5538897
37	8.4504402	8.4506131	23	9.9998271	11.5493869
38	8.4548934	8.4550699	22	9.9998235	11.5449301
39	8.4593013	8.4594814	21	9.9998199	11.5405186
40	8.4636649	8.4638486	20	9.9998162	11.5361514
41	8.4679850	8.4681725	19	9.9998125	11.5318275
42	8.4722626	8.4724538	18	9.9998088	11.5275462
43	8.4764984	8.4766933	17	9.9998050	11.5233067
44	8.4806932	8.4808920	16	9.9998012	11.5191080
45	8.4848479	8.4850505	15	9.9997974	11.5149495
46	8.4889632	8.4891696	14	9.9997935	11.5108304
47	8.4930398	8.4932502	13	9.9997896	11.5067498
48	8.4970784	8.4972928	12	9.9997856	11.5027072
49	8.5010798	8.5012982	11	9.9997817	11.4987018
50	8.5050447	8.5052671	10	9.9997776	11.4947329
51	8.5089736	8.5092001	9	9.9997736	11.4907999
52	8.5128673	8.5130978	8	9.9997695	11.4869022
53	8.5167264	8.5169610	7	9.9997653	11.4830387
54	8.5205514	8.5207902	6	9.9997612	11.4792098
55	8.5243430	8.5245860	5	9.9997570	11.4754140
56	8.5281017	8.5283490	4	9.9997527	11.4716510
57	8.5318281	8.5320797	3	9.9997484	11.4679203
58	8.5355228	8.5357787	2	9.9997441	11.4642213
59	8.5391863	8.5394466	1	9.9997398	11.4605534
60	8.5428192	8.5430832	0	9.9997354	11.4569162

Min.	2. Grad.		Min.	87. Grad.	
	Seno.	Tangente.		Seno.	Tangente.
0	8.5428192	8.5430838	60	9.9997354	11.4569162
1	8.5464218	8.5466909	59	9.9997309	11.4533091
2	8.5499948	8.5502683	58	9.9997265	11.4497317
3	8.5535386	8.5538166	57	9.9997220	11.4461834
4	8.5570536	8.5573362	56	9.9997174	11.4426638
5	8.5605404	8.5608276	55	9.9997128	11.4391724
6	8.5639994	8.5642912	54	9.9997082	11.4357088
7	8.5674310	8.5677275	53	9.9997036	11.4322725
8	8.5708357	8.5711368	52	9.9996989	11.4288632
9	8.5742139	8.5745197	51	9.9996942	11.4254803
10	8.5775660	8.5778766	50	9.9996894	11.4221234
11	8.5808923	8.5812077	49	9.9996846	11.4187923
12	8.5841933	8.5845136	48	9.9996798	11.4154864
13	8.5874694	8.5877945	47	9.9996749	11.4122055
14	8.5907209	8.5910509	46	9.9996700	11.4089491
15	8.5939483	8.5942832	45	9.9996650	11.4057168
16	8.5971517	8.5974917	44	9.9996601	11.4025083
17	8.6003317	8.6006767	43	9.9996550	11.3993233
18	8.6034886	8.6038386	42	9.9996500	11.3961614
19	8.6066226	8.6069777	41	9.9996449	11.3930223
20	8.6097341	8.6100943	40	9.9996398	11.3899057
21	8.6128235	8.6131889	39	9.9996346	11.3868111
22	8.6158910	8.6162616	38	9.9996294	11.3837384
23	8.6189366	8.6193127	37	9.9996242	11.3806873
24	8.6219616	8.6223427	36	9.9996189	11.3776573
25	8.6249653	8.6253518	35	9.9996136	11.3746482
26	8.6279484	8.6283402	34	9.9996082	11.3716598
27	8.6309111	8.6313083	33	9.9996028	11.3686917
28	8.6338537	8.6342563	32	9.9995974	11.3657437
29	8.6367764	8.6371845	31	9.9995919	11.3628155
30	8.6396796	8.6400931	30	9.9995865	11.3599059

Min.	2. Grad.		Min.	87. Grad.	
	Seno.	Tangente.		Seno.	Tangente.
30	8.6396796	8.6400931	30	9.9995865	11.3599060
31	8.6425634	8.6429825	29	9.9995809	11.3570175
32	8.6454282	8.6458528	28	9.9995753	11.3541472
33	8.6482742	8.6487044	27	9.9995697	11.3512956
34	8.6511016	8.6515375	26	9.9995641	11.3484625
35	8.6539107	8.6543522	25	9.9995584	11.3456478
36	8.6567017	8.6571490	24	9.9995527	11.3428510
37	8.6594748	8.6599279	23	9.9995469	11.3400721
38	8.6622303	8.6626891	22	9.9995411	11.3373109
39	8.6649684	8.6654331	21	9.9995353	11.3345669
40	8.6676893	8.6681598	20	9.9995295	11.3318402
41	8.6703932	8.6708697	19	9.9995236	11.3291303
42	8.6730804	8.6735628	18	9.9995176	11.3264372
43	8.6757510	8.6762393	17	9.9995116	11.3237607
44	8.6784052	8.6788996	16	9.9995056	11.3211004
45	8.6810433	8.6815437	15	9.9994996	11.3184563
46	8.6836654	8.6841719	14	9.9994935	11.3158281
47	8.6862718	8.6867844	13	9.9994874	11.3132156
48	8.6888625	8.6893813	12	9.9994812	11.3106187
49	8.6914379	8.6919629	11	9.9994750	11.3080371
50	8.6939980	8.6945292	10	9.9994688	11.3054708
51	8.6965431	8.6970806	9	9.9994625	11.3029194
52	8.6990734	8.6996173	8	9.9994562	11.3003828
53	8.7015889	8.7021390	7	9.9994498	11.2978610
54	8.7040899	8.7046465	6	9.9994435	11.2953535
55	8.7065766	8.7071395	5	9.9994370	11.2928605
56	8.7090490	8.7096185	4	9.9994306	11.2903815
57	8.7115075	8.7120834	3	9.9994241	11.2879166
58	8.7139520	8.7145345	2	9.9994176	11.2854655
59	8.7163829	8.7169719	1	9.9994110	11.2830281
60	8.7188002	8.7193958	0	9.9994044	11.2806042

Min.	3. Grad.		Min.	87. Grad.	
	Seno.	Tangente.		Seno.	Tangente.
0	8.7188002	8.7193958	60	9.9994044	11.2806042
1	8.7212040	8.7218063	59	9.9993978	11.2781937
2	8.7235946	8.7242035	58	9.9993911	11.2757965
3	8.7259721	8.7265877	57	9.9993844	11.2734123
4	8.7283366	8.7289589	56	9.9993776	11.2710411
5	8.7306882	8.7313174	55	9.9993708	11.2686826
6	8.7330272	8.7336631	54	9.9993640	11.2663369
7	8.7353535	8.7359964	53	9.9993572	11.2640036
8	8.7376675	8.7383172	52	9.9993503	11.2616828
9	8.7399691	8.7406258	51	9.9993433	11.2593742
10	8.7422586	8.7429222	50	9.9993364	11.2570778
11	8.7445360	8.7452067	49	9.9993293	11.2547933
12	8.7468015	8.7474792	48	9.9993223	11.2525208
13	8.7490553	8.7497400	47	9.9993152	11.2502600
14	8.7512973	8.7519892	46	9.9993081	11.2480108
15	8.7535278	8.7542269	45	9.9993009	11.2457731
16	8.7557469	8.7564531	44	9.9992938	11.2435469
17	8.7579546	8.7586681	43	9.9992865	11.2413319
18	8.7601512	8.7608719	42	9.9992793	11.2391281
19	8.7623366	8.7630647	41	9.9992720	11.2369353
20	8.7645111	8.7652465	40	9.9992646	11.2347535
21	8.7666747	8.7674175	39	9.9992572	11.2325825
22	8.7688275	8.7695777	38	9.9992498	11.2304223
23	8.7709697	8.7717274	37	9.9992424	11.2282726
24	8.7731014	8.7738665	36	9.9992349	11.2261335
25	8.7752226	8.7759952	35	9.9992274	11.2240048
26	8.7773334	8.7781136	34	9.9992198	11.2218864
27	8.7794340	8.7802218	33	9.9992122	11.2197782
28	8.7815244	8.7823199	32	9.9992046	11.2176801
29	8.7836048	8.7844079	31	9.9991969	11.2155921
30	8.7856753	8.7864861	30	9.9991892	11.2135139

Min.	3. Grad.		Min.	86. Grad.	
	Seno.	Tangente.		Seno.	Tangente.
30	8.7856753	8.7864861	30	9.9991892	11.2135139
31	8.7877359	8.7885544	29	9.9991815	11.2114456
32	8.7897867	8.7906130	28	9.9991737	11.2093870
33	8.7918278	8.7926620	27	9.9991659	11.2073380
34	8.7938594	8.7947014	26	9.9991580	11.2052986
35	8.7958814	8.7967313	25	9.9991501	11.2032687
36	8.7978941	8.7987519	24	9.9991422	11.2012481
37	8.7998974	8.8007632	23	9.9991342	11.1992368
38	8.8018915	8.8027653	22	9.9991262	11.1972347
39	8.8038764	8.8047583	21	9.9991182	11.1952417
40	8.8058523	8.8067422	20	9.9991101	11.1932578
41	8.8078192	8.8087172	19	9.9991020	11.1912828
42	8.8097772	8.8106834	18	9.9990938	11.1893166
43	8.8117264	8.8126407	17	9.9990856	11.1873593
44	8.8136668	8.8145894	16	9.9990774	11.1854106
45	8.8155985	8.8165294	15	9.9990691	11.1834706
46	8.8175217	8.8184608	14	9.9990608	11.1815392
47	8.8194363	8.8203838	13	9.9990525	11.1796162
48	8.8213425	8.8222984	12	9.9990441	11.1777016
49	8.8232404	8.8242046	11	9.9990357	11.1757954
50	8.8251299	8.8261026	10	9.9990273	11.1738974
51	8.8270112	8.8279924	9	9.9990188	11.1720076
52	8.8288844	8.8298741	8	9.9990103	11.1701259
53	8.8307495	8.8317478	7	9.9990017	11.1682522
54	8.8326066	8.8336134	6	9.9989931	11.1663866
55	8.8344557	8.8354712	5	9.9989845	11.1645288
56	8.8362969	8.8373211	4	9.9989758	11.1626789
57	8.8381304	8.8391633	3	9.9989671	11.1608367
58	8.8409561	8.8409977	2	9.9989584	11.1590023
59	8.8427741	8.8428245	1	9.9989496	11.1571755
60	8.8445845	8.8446437	0	9.9989408	11.1553563

4. Grad.		85. Grad.			
Min.	Seno.	Tangente.	Min.	Seno.	Tangente.
0	8.8435845	8.8446437	60	9.9989408	11.1553563
1	8.8453874	8.8464554	59	9.9989319	11.1535446
2	8.8471827	8.8482597	58	9.9989230	11.1517403
3	8.8489707	8.8500566	57	9.9989141	11.1499434
4	8.8507512	8.8518461	56	9.9989052	11.1481539
5	8.8525245	8.8536283	55	9.9988962	11.1463717
6	8.8542905	8.8554034	54	9.9988871	11.1445966
7	8.8560493	8.8571713	53	9.9988780	11.1428287
8	8.8578010	8.8589321	52	9.9988689	11.1410679
9	8.8595457	8.8606859	51	9.9988598	11.1393141
10	8.8612833	8.8624327	50	9.9988506	11.1375673
11	8.8630139	8.8641725	49	9.9988414	11.1358275
12	8.8647376	8.8659055	48	9.9988321	11.1340945
13	8.8664545	8.8676317	47	9.9988228	11.1323683
14	8.8681646	8.8693511	46	9.9988135	11.1306489
15	8.8698680	8.8710638	45	9.9988041	11.1289362
16	8.8715646	8.8727699	44	9.9987947	11.1272301
17	8.8732546	8.8744694	43	9.9987853	11.1255306
18	8.8749381	8.8761623	42	9.9987758	11.1238377
19	8.8766150	8.8778487	41	9.9987663	11.1221513
20	8.8782854	8.8795286	40	9.9987567	11.1204714
21	8.8799493	8.8812022	39	9.9987471	11.1187978
22	8.8816069	8.8828694	38	9.9987375	11.1171306
23	8.8832581	8.8845303	37	9.9987278	11.1154697
24	8.8849031	8.8861880	36	9.9987181	11.1138150
25	8.8865418	8.8878334	35	9.9987084	11.1121666
26	8.8881743	8.8894757	34	9.9986986	11.1105243
27	8.8898007	8.8911119	33	9.9986888	11.1088881
28	8.8914209	8.8927420	32	9.9986790	11.1072580
29	8.8930351	8.8943660	31	9.9986691	11.1056340
30	8.8946433	8.8959842	30	9.9986591	11.1040158

4. Grad.		85. Grad.			
Min.	Seno.	Tangente.	Min.	Seno.	Tangente.
30	8.8946433	8.8959842	30	9.9986591	11.1040158
31	8.8962455	8.8975963	29	9.9986492	11.1024037
32	8.8978418	8.8992026	28	9.9986392	11.1007974
33	8.8994322	8.9008030	27	9.9986292	11.0991970
34	8.9010168	8.9023977	26	9.9986191	11.0976023
35	8.9025955	8.9039866	25	9.9986090	11.0960134
36	8.9041685	8.9055697	24	9.9985988	11.0844303
37	8.9057358	8.9071472	23	9.9985886	11.0928528
38	8.9072975	8.9087190	22	9.9985784	11.0912810
39	8.9088535	8.9102853	21	9.9985682	11.0897147
40	8.9104039	8.9118460	20	9.9985579	11.0881540
41	8.9119487	8.9134012	19	9.9985475	11.0865988
42	8.9134881	8.9149509	18	9.9985372	11.0850491
43	8.9150219	8.9164952	17	9.9985268	11.0835048
44	8.9165504	8.9180340	16	9.9985163	11.0819660
45	8.9180734	8.9195675	15	9.9985058	11.0804325
46	8.9195911	8.9210957	14	9.9984953	11.0789043
47	8.9211034	8.9226186	13	9.9984848	11.0773814
48	8.9226105	8.9241363	12	9.9984742	11.0758637
49	8.9241123	8.9256487	11	9.9984636	11.0743513
50	8.9256089	8.9271560	10	9.9984529	11.0728440
51	8.9271003	8.9286581	9	9.9984422	11.0713419
52	8.9285866	8.9301552	8	9.9984315	11.0698448
53	8.9300678	8.9316471	7	9.9984207	11.0683529
54	8.9315439	8.9331340	6	9.9984099	11.0668660
55	8.9330150	8.9346160	5	9.9983990	11.0653840
56	8.9344811	8.9360929	4	9.9983881	11.0639071
57	8.9359422	8.9375650	3	9.9983772	11.0624350
58	8.9373983	8.9390321	2	9.9983663	11.0609679
59	8.9388496	8.9404944	1	9.9983553	11.0595056
60	8.9402960	8.9419518	0	9.9983442	11.0580482

5. Grad.		84. Grad.			
Min.	Seno.	Tangente.	Min.	Seno.	Tangente.
0	8.9402960	8.9419318	60	9.9983442	11.0580482
1	8.9417376	8.9434044	59	9.9983332	11.0565956
2	8.9431743	8.9448523	58	9.9983220	11.0551477
3	8.9446063	8.9462954	57	9.9983109	11.0537046
4	8.9460335	8.9477338	56	9.9982997	11.0522662
5	8.9474561	8.9491676	55	9.9982885	11.0508324
6	8.9488739	8.9505967	54	9.9982772	11.0494033
7	8.9502871	8.9520211	53	9.9982660	11.0479789
8	8.9516957	8.9534410	52	9.9982546	11.0465590
9	8.9530996	8.9548564	51	9.9982433	11.0451436
10	8.9544991	8.9562672	50	9.9982318	11.0437328
11	8.9558940	8.9576735	49	9.9982204	11.0423265
12	8.9572843	8.9590754	48	9.9982089	11.0409246
13	8.9586703	8.9604728	47	9.9981974	11.0395272
14	8.9600517	8.9618659	46	9.9981859	11.0381341
15	8.9614288	8.9632545	45	9.9981743	11.0367455
16	8.9628014	8.9646388	44	9.9981626	11.0353612
17	8.9641697	8.9660188	43	9.9981510	11.0339812
18	8.9655337	8.9673944	42	9.9981393	11.0326056
19	8.9668934	8.9687658	41	9.9981275	11.0312342
20	8.9682487	8.9701330	40	9.9981158	11.0298670
21	8.9695999	8.9714959	39	9.9981040	11.0285041
22	8.9709468	8.9728547	38	9.9980921	11.0271453
23	8.9722895	8.9742092	37	9.9980802	11.0257908
24	8.9736280	8.9755597	36	9.9980683	11.0244403
25	8.9749624	8.9769060	35	9.9980563	11.0230940
26	8.9762926	8.9782483	34	9.9980443	11.0217517
27	8.9776188	8.9795865	33	9.9980323	11.0204135
28	8.9789408	8.9809206	32	9.9980202	11.0190794
29	8.9802589	8.9822507	31	9.9980081	11.0177493
30	8.9815729	8.9835769	30	9.9979960	11.0164231

5. Grad.		84. Grad.			
Min.	Seno.	Tangente.	Min.	Seno.	Tangente.
30	8.9815729	8.9835769	30	9.9979960	11.0164231
31	8.9828829	8.9848991	29	9.9979838	11.0151009
32	8.9841889	8.9862173	28	9.9979716	11.0137827
33	8.9854910	8.9875317	27	9.9979593	11.0124683
34	8.9867891	8.9888421	26	9.9979470	11.0111579
35	8.9880834	8.9901487	25	9.9979347	11.0098513
36	8.9893737	8.9914514	24	9.9979223	11.0085486
37	8.9906602	8.9927503	23	9.9979099	11.0072497
38	8.9919429	8.9940454	22	9.9978975	11.0059546
39	8.9932217	8.9953367	21	9.9978850	11.0046633
40	8.9944968	8.9966243	20	9.9978725	11.0033757
41	8.9957681	8.9979081	19	9.9978599	11.0020918
42	8.9970356	8.9991883	18	9.9978473	11.0008117
43	8.9982994	9.0004647	17	9.9978347	10.9995353
44	8.9995595	9.0017375	16	9.9978220	10.9982625
45	9.0008160	9.0030066	15	9.9978093	10.9969934
46	9.0020687	9.0042721	14	9.9977966	10.9957279
47	9.0033179	9.0055340	13	9.9977838	10.9944660
48	9.0045634	9.0067924	12	9.9977710	10.9932076
49	9.0058053	9.0080471	11	9.9977582	10.9919529
50	9.0070436	9.0092984	10	9.9977453	10.9907016
51	9.0082784	9.0105461	9	9.9977323	10.9894539
52	9.0095096	9.0117903	8	9.9977194	10.9882097
53	9.0107374	9.0130310	7	9.9977064	10.9869690
54	9.0119616	9.0142682	6	9.9976933	10.9857318
55	9.0131823	9.0155021	5	9.9976803	10.9844979
56	9.0143996	9.0167325	4	9.9976672	10.9832675
57	9.0156135	9.0179594	3	9.9976540	10.9820406
58	9.0168239	9.0191831	2	9.9976408	10.9808169
59	9.0180309	9.0204033	1	9.9976276	10.9795967
60	9.0192346	9.0216202	0	9.9976143	10.9783798

6. Grad.		83. Grad.			
Min.	Seno.	Tangente.	Min.	Seno.	Tangente.
0	9.0192346	9.0216202	60	9.9976143	10.9783798
1	9.0204348	9.0228338	59	9.9976011	10.9771662
2	9.0216318	9.0240441	58	9.9975877	10.9759559
3	9.0228254	9.0252510	57	9.9975743	10.9747490
4	9.0240157	9.0264548	56	9.9975609	10.9735452
5	9.0252027	9.0276552	55	9.9975475	10.9723448
6	9.0263865	9.0288524	54	9.9975340	10.9711476
7	9.0275669	9.0300464	53	9.9975205	10.9699536
8	9.0287442	9.0312373	52	9.9975069	10.9687627
9	9.0299182	9.0324249	51	9.9974933	10.9675751
10	9.0310890	9.0336093	50	9.9974797	10.9663907
11	9.0322567	9.0347906	49	9.9974660	10.9652094
12	9.0334212	9.0359688	48	9.9974523	10.9640312
13	9.0345825	9.0371439	47	9.9974386	10.9628561
14	9.0357405	9.0383159	46	9.9974248	10.9616841
15	9.0368958	9.0394848	45	9.9974110	10.9605152
16	9.0380477	9.0406506	44	9.9973971	10.9593494
17	9.0391966	9.0418134	43	9.9973833	10.9581866
18	9.0403424	9.0429731	42	9.9973693	10.9570269
19	9.0414852	9.0441299	41	9.9973554	10.9558701
20	9.0426249	9.0452836	40	9.9973414	10.9547164
21	9.0437617	9.0464343	39	9.9973273	10.9535657
22	9.0448954	9.0475821	38	9.9973132	10.9524179
23	9.0460261	9.0487270	37	9.9972991	10.9512730
24	9.0471538	9.0498689	36	9.9972850	10.9501311
25	9.0482786	9.0510078	35	9.9972708	10.9489922
26	9.0494005	9.0521439	34	9.9972566	10.9478561
27	9.0505194	9.0532771	33	9.9972423	10.9467229
28	9.0516354	9.0544074	32	9.9972280	10.9455926
29	9.0527485	9.0555349	31	9.9972137	10.9444651
30	9.0538588	9.0566595	30	9.9971993	10.9433405

6. Grad.		83. Grad.			
Min.	Seno.	Tangente.	Min.	Seno.	Tangente.
30	9.0538588	9.0566595	30	9.9971993	10.9433405
31	9.0549661	9.0577813	29	9.9971849	10.9422187
32	9.0560706	9.0589002	28	9.9971704	10.9410998
33	9.0571723	9.0600164	27	9.9971559	10.9399836
34	9.0582711	9.0611297	26	9.9971414	10.9388703
35	9.0593672	9.0622403	25	9.9971268	10.9377595
36	9.0604604	9.0633482	24	9.9971122	10.9366518
37	9.0615509	9.0644533	23	9.9970976	10.9355467
38	9.0626386	9.0655556	22	9.9970829	10.9344444
39	9.0637235	9.0666553	21	9.9970682	10.9333447
40	9.0648057	9.0677522	20	9.9970535	10.9322478
41	9.0658852	9.0688465	19	9.9970387	10.9311535
42	9.0669619	9.0699381	18	9.9970239	10.9300619
43	9.0680360	9.0710270	17	9.9970090	10.9289730
44	9.0691074	9.0721133	16	9.9969941	10.9278867
45	9.0701761	9.0731969	15	9.9969792	10.9268031
46	9.0712421	9.0742779	14	9.9969642	10.9257221
47	9.0723055	9.0753563	13	9.9969492	10.9246437
48	9.0733663	9.0764321	12	9.9969342	10.9235679
49	9.0744244	9.0775053	11	9.9969191	10.9224947
50	9.0754799	9.0785760	10	9.9969040	10.9214240
51	9.0765329	9.0796441	9	9.9968888	10.9203559
52	9.0775832	9.0807096	8	9.9968736	10.9192904
53	9.0786310	9.0817726	7	9.9968584	10.9182274
54	9.0796762	9.0828331	6	9.9968431	10.9171669
55	9.0807189	9.0838911	5	9.9968278	10.9161089
56	9.0817590	9.0849466	4	9.9968125	10.9150534
57	9.0827966	9.0859996	3	9.9967971	10.9140004
58	9.0838317	9.0870501	2	9.9967815	10.9129499
59	9.0848643	9.0880981	1	9.9967662	10.9119019
60	9.0858945	9.0891438	0	9.9967507	10.9108562

7. Grad.		Min.	82. Grad.	
Seno.	Tangente.		Seno.	Tangente.
0	9.0858945		9.9967507	10.9108562
1	9.0869221		9.9967352	10.9098131
2	9.0879473		9.9967196	10.9087723
3	9.0889700		9.9967040	10.9077340
4	9.0899903		9.9966884	10.9066980
5	9.0910082		9.9966727	10.9056645
6	9.0920237		9.9966570	10.9046333
7	9.0930367		9.9966412	10.9036045
8	9.0940474		9.9966254	10.9025781
9	9.0950556		9.9966096	10.9015540
10	9.0960615		9.9965937	10.9005322
11	9.0970651		9.9965778	10.8995128
12	9.0980662		9.9965619	10.8984956
13	9.0990651		9.9965459	10.8974808
14	9.1000616		9.9965299	10.8964683
15	9.1010558		9.9965138	10.8954580
16	9.1020477		9.9964977	10.8944500
17	9.1030373		9.9964816	10.8934443
18	9.1040246		9.9964655	10.8924409
19	9.1050096		9.9964493	10.8914396
20	9.1059924		9.9964330	10.8904406
21	9.1069729		9.9964167	10.8894438
22	9.1079512		9.9964004	10.8884492
23	9.1089272		9.9963841	10.8874569
24	9.1099010		9.9963677	10.8864667
25	9.1108726		9.9963513	10.8854787
26	9.1118420		9.9963348	10.8844928
27	9.1128092		9.9963183	10.8835091
28	9.1137742		9.9963018	10.8825276
29	9.1147370		9.9962852	10.8815482
30	9.1156977		9.9962686	10.8805709

7. Grad.		Min.	82. Grad.	
Seno.	Tangente.		Seno.	Tangente.
30	9.1156977		9.9962686	10.8805709
31	9.1166562		9.9962519	10.8795957
32	9.1176125		9.9962352	10.8786227
33	9.1185667		9.9962185	10.8776518
34	9.1195188		9.9962017	10.8766829
35	9.1204688		9.9961849	10.8757161
36	9.1214167		9.9961681	10.8747514
37	9.1223624		9.9961512	10.8737888
38	9.1233061		9.9961343	10.8728282
39	9.1242477		9.9961174	10.8718697
40	9.1251872		9.9961004	10.8709132
41	9.1261246		9.9960834	10.8699587
42	9.1270600		9.9960663	10.8690063
43	9.1279934		9.9960492	10.8680558
44	9.1289247		9.9960321	10.8671074
45	9.1298539		9.9960149	10.8661609
46	9.1307812		9.9959977	10.8652165
47	9.1317064		9.9959804	10.8642740
48	9.1326297		9.9959631	10.8633335
49	9.1335509		9.9959458	10.8623949
50	9.1344702		9.9959284	10.8614583
51	9.1353875		9.9959111	10.8605236
52	9.1363028		9.9958936	10.8595908
53	9.1372161		9.9958761	10.8586600
54	9.1381275		9.9958586	10.8577311
55	9.1390370		9.9958411	10.8568041
56	9.1399445		9.9958235	10.8558790
57	9.1408501		9.9958059	10.8549558
58	9.1417537		9.9957882	10.8540345
59	9.1426555		9.9957705	10.8531150
60	9.1435553		9.9957528	10.8521975