

Trigonometric Tables

Sine

First decimal place

Angle in degrees	0	1	2	3	4	5	6	7	8	9
0	,0000	,0017	,0035	,0052	,0070	,0087	,0105	,0122	,0140	,0157
1	,0175	,0192	,0209	,0227	,0244	,0262	,0279	,0297	,0314	,0332
2	,0349	,0366	,0384	,0401	,0419	,0436	,0454	,0471	,0488	,0506
3	,0523	,0541	,0558	,0576	,0593	,0610	,0628	,0645	,0663	,0680
4	,0698	,0715	,0732	,0750	,0767	,0785	,0802	,0819	,0837	,0854
5	,0872	,0889	,0906	,0924	,0941	,0958	,0976	,0993	,1011	,1028
6	,1045	,1063	,1080	,1097	,1115	,1132	,1149	,1167	,1184	,1201
7	,1219	,1236	,1253	,1271	,1288	,1305	,1323	,1340	,1357	,1374
8	,1392	,1409	,1426	,1444	,1461	,1478	,1495	,1513	,1530	,1547
9	,1564	,1582	,1599	,1616	,1633	,1650	,1668	,1685	,1702	,1719
10	,1736	,1754	,1771	,1788	,1805	,1822	,1840	,1857	,1874	,1891
11	,1908	,1925	,1942	,1959	,1977	,1994	,2011	,2028	,2045	,2062
12	,2079	,2096	,2113	,2130	,2147	,2164	,2181	,2198	,2215	,2233
13	,2250	,2267	,2284	,2300	,2317	,2334	,2351	,2368	,2385	,2402
14	,2419	,2436	,2453	,2470	,2487	,2504	,2521	,2538	,2554	,2571
15	,2588	,2605	,2622	,2639	,2656	,2672	,2689	,2706	,2723	,2740
16	,2756	,2773	,2790	,2807	,2823	,2840	,2857	,2874	,2890	,2907
17	,2924	,2940	,2957	,2974	,2990	,3007	,3024	,3040	,3057	,3074
18	,3090	,3107	,3123	,3140	,3156	,3173	,3190	,3206	,3223	,3239
19	,3256	,3272	,3289	,3305	,3322	,3338	,3355	,3371	,3387	,3404
20	,3420	,3437	,3453	,3469	,3486	,3502	,3518	,3535	,3551	,3567
21	,3584	,3600	,3616	,3633	,3649	,3665	,3681	,3697	,3714	,3730
22	,3746	,3762	,3778	,3795	,3811	,3827	,3843	,3859	,3875	,3891
23	,3907	,3923	,3939	,3955	,3971	,3987	,4003	,4019	,4035	,4051
24	,4067	,4083	,4099	,4115	,4131	,4147	,4163	,4179	,4195	,4210
25	,4226	,4242	,4258	,4274	,4289	,4305	,4321	,4337	,4352	,4368
26	,4384	,4399	,4415	,4431	,4446	,4462	,4478	,4493	,4509	,4524
27	,4540	,4555	,4571	,4586	,4602	,4617	,4633	,4648	,4664	,4679
28	,4695	,4710	,4726	,4741	,4756	,4772	,4787	,4802	,4818	,4833
29	,4848	,4863	,4879	,4894	,4909	,4924	,4939	,4955	,4970	,4985
30	,5000	,5015	,5030	,5045	,5060	,5075	,5090	,5105	,5120	,5135
31	,5150	,5165	,5180	,5195	,5210	,5225	,5240	,5255	,5270	,5284
32	,5299	,5314	,5329	,5344	,5358	,5373	,5388	,5402	,5417	,5432
33	,5446	,5461	,5476	,5490	,5505	,5519	,5534	,5548	,5563	,5577
34	,5592	,5606	,5621	,5635	,5650	,5664	,5678	,5693	,5707	,5721
35	,5736	,5750	,5764	,5779	,5793	,5807	,5821	,5835	,5850	,5864
36	,5878	,5892	,5906	,5920	,5934	,5948	,5962	,5976	,5990	,6004
37	,6018	,6032	,6046	,6060	,6074	,6088	,6101	,6115	,6129	,6143
38	,6157	,6170	,6184	,6198	,6211	,6225	,6239	,6252	,6266	,6280
39	,6293	,6307	,6320	,6334	,6347	,6361	,6374	,6388	,6401	,6414
40	,6428	,6441	,6455	,6468	,6481	,6494	,6508	,6521	,6534	,6547
41	,6561	,6574	,6587	,6600	,6613	,6626	,6639	,6652	,6665	,6678
42	,6691	,6704	,6717	,6730	,6743	,6756	,6769	,6782	,6794	,6807
43	,6820	,6833	,6845	,6858	,6871	,6884	,6896	,6909	,6921	,6934
44	,6947	,6959	,6972	,6984	,6997	,7009	,7022	,7034	,7046	,7059
45	,7071	,7083	,7096	,7108	,7120	,7133	,7145	,7157	,7169	,7181
46	,7193	,7206	,7218	,7230	,7242	,7254	,7266	,7278	,7290	,7302
47	,7314	,7325	,7337	,7349	,7361	,7373	,7385	,7396	,7408	,7420

Trigonometric Tables

48	,7431	,7443	,7455	,7466	,7478	,7490	,7501	,7513	,7524	,7536
49	,7547	,7559	,7570	,7581	,7593	,7604	,7615	,7627	,7638	,7649
50	,7660	,7672	,7683	,7694	,7705	,7716	,7727	,7738	,7749	,7760
51	,7771	,7782	,7793	,7804	,7815	,7826	,7837	,7848	,7859	,7869
52	,7880	,7891	,7902	,7912	,7923	,7934	,7944	,7955	,7965	,7976
53	,7986	,7997	,8007	,8018	,8028	,8039	,8049	,8059	,8070	,8080
54	,8090	,8100	,8111	,8121	,8131	,8141	,8151	,8161	,8171	,8181
55	,8192	,8202	,8211	,8221	,8231	,8241	,8251	,8261	,8271	,8281
56	,8290	,8300	,8310	,8320	,8329	,8339	,8348	,8358	,8368	,8377
57	,8387	,8396	,8406	,8415	,8425	,8434	,8443	,8453	,8462	,8471
58	,8480	,8490	,8499	,8508	,8517	,8526	,8536	,8545	,8554	,8563
59	,8572	,8581	,8590	,8599	,8607	,8616	,8625	,8634	,8643	,8652
60	,8660	,8669	,8678	,8686	,8695	,8704	,8712	,8721	,8729	,8738
61	,8746	,8755	,8763	,8771	,8780	,8788	,8796	,8805	,8813	,8821
62	,8829	,8838	,8846	,8854	,8862	,8870	,8878	,8886	,8894	,8902
63	,8910	,8918	,8926	,8934	,8942	,8949	,8957	,8965	,8973	,8980
64	,8988	,8996	,9003	,9011	,9018	,9026	,9033	,9041	,9048	,9056
65	,9063	,9070	,9078	,9085	,9092	,9100	,9107	,9114	,9121	,9128
66	,9135	,9143	,9150	,9157	,9164	,9171	,9178	,9184	,9191	,9198
67	,9205	,9212	,9219	,9225	,9232	,9239	,9245	,9252	,9259	,9265
68	,9272	,9278	,9285	,9291	,9298	,9304	,9311	,9317	,9323	,9330
69	,9336	,9342	,9348	,9354	,9361	,9367	,9373	,9379	,9385	,9391
70	,9397	,9403	,9409	,9415	,9421	,9426	,9432	,9438	,9444	,9449
71	,9455	,9461	,9466	,9472	,9478	,9483	,9489	,9494	,9500	,9505
72	,9511	,9516	,9521	,9527	,9532	,9537	,9542	,9548	,9553	,9558
73	,9563	,9568	,9573	,9578	,9583	,9588	,9593	,9598	,9603	,9608
74	,9613	,9617	,9622	,9627	,9632	,9636	,9641	,9646	,9650	,9655
75	,9659	,9664	,9668	,9673	,9677	,9681	,9686	,9690	,9694	,9699
76	,9703	,9707	,9711	,9715	,9720	,9724	,9728	,9732	,9736	,9740
77	,9744	,9748	,9751	,9755	,9759	,9763	,9767	,9770	,9774	,9778
78	,9781	,9785	,9789	,9792	,9796	,9799	,9803	,9806	,9810	,9813
79	,9816	,9820	,9823	,9826	,9829	,9833	,9836	,9839	,9842	,9845
80	,9848	,9851	,9854	,9857	,9860	,9863	,9866	,9869	,9871	,9874
81	,9877	,9880	,9882	,9885	,9888	,9890	,9893	,9895	,9898	,9900
82	,9903	,9905	,9907	,9910	,9912	,9914	,9917	,9919	,9921	,9923
83	,9925	,9928	,9930	,9932	,9934	,9936	,9938	,9940	,9942	,9943
84	,9945	,9947	,9949	,9951	,9952	,9954	,9956	,9957	,9959	,9960
85	,9962	,9963	,9965	,9966	,9968	,9969	,9971	,9972	,9973	,9974
86	,9976	,9977	,9978	,9979	,9980	,9981	,9982	,9983	,9984	,9985
87	,9986	,9987	,9988	,9989	,9990	,9990	,9991	,9992	,9993	,9993
88	,9994	,9995	,9995	,9996	,9996	,9997	,9997	,9997	,9998	,9998
89	,9998	,9999	,9999	,9999	,9999	1,0000	1,0000	1,0000	1,0000	1,0000
90	1,0000									