

Table of Trigonometric Ratios

| Angle | Sine | Cosine | Tangent |
|-------|-------|--------|---------|
| 1° | .0175 | .9998 | .0175 |
| 2° | .0349 | .9994 | .0349 |
| 3° | .0523 | .9986 | .0524 |
| 4° | .0698 | .9976 | .0699 |
| 5° | .0872 | .9962 | .0875 |
| 6° | .1045 | .9945 | .1051 |
| 7° | .1219 | .9925 | .1228 |
| 8° | .1392 | .9903 | .1405 |
| 9° | .1564 | .9877 | .1584 |
| 10° | .1736 | .9848 | .1763 |
| 11° | .1908 | .9816 | .1944 |
| 12° | .2079 | .9781 | .2126 |
| 13° | .2250 | .9744 | .2309 |
| 14° | .2419 | .9703 | .2493 |
| 15° | .2588 | .9659 | .2679 |
| 16° | .2756 | .9613 | .2867 |
| 17° | .2924 | .9563 | .3057 |
| 18° | .3090 | .9511 | .3249 |
| 19° | .3256 | .9455 | .3443 |
| 20° | .3420 | .9397 | .3640 |
| 21° | .3584 | .9336 | .3839 |
| 22° | .3746 | .9272 | .4040 |
| 23° | .3907 | .9205 | .4245 |
| 24° | .4067 | .9135 | .4452 |
| 25° | .4226 | .9063 | .4663 |
| 26° | .4384 | .8988 | .4877 |
| 27° | .4540 | .8910 | .5095 |
| 28° | .4695 | .8829 | .5317 |
| 29° | .4848 | .8746 | .5543 |
| 30° | .5000 | .8660 | .5774 |
| 31° | .5150 | .8572 | .6009 |
| 32° | .5299 | .8480 | .6249 |
| 33° | .5446 | .8387 | .6494 |
| 34° | .5592 | .8290 | .6745 |
| 35° | .5736 | .8192 | .7002 |
| 36° | .5878 | .8090 | .7265 |
| 37° | .6018 | .7986 | .7536 |
| 38° | .6157 | .7880 | .7813 |
| 39° | .6293 | .7771 | .8098 |
| 40° | .6428 | .7660 | .8391 |
| 41° | .6561 | .7547 | .8693 |
| 42° | .6691 | .7431 | .9004 |
| 43° | .6820 | .7314 | .9325 |
| 44° | .6947 | .7193 | .9657 |
| 45° | .7071 | .7071 | 1.0000 |

| Angle | Sine | Cosine | Tangent |
|-------|-------|--------|---------|
| 46° | .7193 | .6947 | 1.0355 |
| 47° | .7314 | .6820 | 1.0724 |
| 48° | .7431 | .6691 | 1.1106 |
| 49° | .7547 | .6561 | 1.1504 |
| 50° | .7660 | .6428 | 1.1918 |
| 51° | .7771 | .6293 | 1.2349 |
| 52° | .7880 | .6157 | 1.2799 |
| 53° | .7986 | .6018 | 1.3270 |
| 54° | .8090 | .5878 | 1.3764 |
| 55° | .8192 | .5736 | 1.4281 |
| 56° | .8290 | .5592 | 1.4826 |
| 57° | .8387 | .5446 | 1.5399 |
| 58° | .8480 | .5299 | 1.6003 |
| 59° | .8572 | .5150 | 1.6643 |
| 60° | .8660 | .5000 | 1.7321 |
| 61° | .8746 | .4848 | 1.8040 |
| 62° | .8829 | .4695 | 1.8807 |
| 63° | .8910 | .4540 | 1.9626 |
| 64° | .8988 | .4384 | 2.0503 |
| 65° | .9063 | .4226 | 2.1445 |
| 66° | .9135 | .4067 | 2.2460 |
| 67° | .9205 | .3907 | 2.3559 |
| 68° | .9272 | .3746 | 2.4751 |
| 69° | .9336 | .3584 | 2.6051 |
| 70° | .9397 | .3420 | 2.7475 |
| 71° | .9455 | .3256 | 2.9042 |
| 72° | .9511 | .3090 | 3.0777 |
| 73° | .9563 | .2924 | 3.2709 |
| 74° | .9613 | .2756 | 3.4874 |
| 75° | .9659 | .2588 | 3.7321 |
| 76° | .9703 | .2419 | 4.0108 |
| 77° | .9744 | .2250 | 4.3315 |
| 78° | .9781 | .2079 | 4.7046 |
| 79° | .9816 | .1908 | 5.1446 |
| 80° | .9848 | .1736 | 5.6713 |
| 81° | .9877 | .1564 | 6.3138 |
| 82° | .9903 | .1392 | 7.1154 |
| 83° | .9925 | .1219 | 8.1443 |
| 84° | .9945 | .1045 | 9.5144 |
| 85° | .9962 | .0872 | 11.4301 |
| 86° | .9976 | .0698 | 14.3007 |
| 87° | .9986 | .0523 | 19.0811 |
| 88° | .9994 | .0349 | 28.6363 |
| 89° | .9998 | .0175 | 57.2900 |