

Natural Trigonometric Functions

| θ | Deg | | | Tan |
|----|-------|--------|--------|---------|
| | Sin | Cos | Rad | |
| 46 | 0.802 | 0.7193 | 0.6947 | 1.0355 |
| 47 | 0.820 | 0.7314 | 0.6820 | 1.0724 |
| 48 | 0.837 | 0.7431 | 0.6691 | 1.1106 |
| 49 | 0.855 | 0.7547 | 0.6561 | 1.1504 |
| 50 | 0.872 | 0.7660 | 0.6428 | 1.1918 |
| 51 | 0.890 | 0.7771 | 0.6293 | 1.2349 |
| 52 | 0.907 | 0.7880 | 0.6157 | 1.2799 |
| 53 | 0.925 | 0.7986 | 0.6018 | 1.3270 |
| 54 | 0.942 | 0.8090 | 0.5878 | 1.3764 |
| 55 | 0.959 | 0.8192 | 0.5736 | 1.4281 |
| 56 | 0.977 | 0.8290 | 0.5592 | 1.4826 |
| 57 | 0.994 | 0.8387 | 0.5446 | 1.5399 |
| 58 | 1.012 | 0.8480 | 0.5299 | 1.6003 |
| 59 | 1.029 | 0.8572 | 0.5150 | 1.6643 |
| 60 | 1.047 | 0.8660 | 0.5000 | 1.7321 |
| 61 | 1.064 | 0.8746 | 0.4848 | 1.8040 |
| 62 | 1.082 | 0.8829 | 0.4695 | 1.8807 |
| 63 | 1.099 | 0.8910 | 0.4540 | 1.9626 |
| 64 | 1.116 | 0.8988 | 0.4384 | 2.0503 |
| 65 | 1.134 | 0.9063 | 0.4226 | 2.1445 |
| 66 | 1.151 | 0.9135 | 0.4067 | 2.2460 |
| 67 | 1.169 | 0.9205 | 0.3907 | 2.3559 |
| 68 | 1.186 | 0.9272 | 0.3746 | 2.4751 |
| 69 | 1.204 | 0.9336 | 0.3584 | 2.6051 |
| 70 | 1.221 | 0.9397 | 0.3420 | 2.7475 |
| 71 | 1.239 | 0.9455 | 0.3256 | 2.9042 |
| 72 | 1.256 | 0.9511 | 0.3090 | 3.0777 |
| 73 | 1.273 | 0.9563 | 0.2924 | 3.2709 |
| 74 | 1.291 | 0.9613 | 0.2756 | 3.4874 |
| 75 | 1.308 | 0.9659 | 0.2588 | 3.7321 |
| 76 | 1.326 | 0.9703 | 0.2419 | 4.0108 |
| 77 | 1.343 | 0.9744 | 0.2250 | 4.3315 |
| 78 | 1.361 | 0.9781 | 0.2079 | 4.7046 |
| 79 | 1.378 | 0.9816 | 0.1908 | 5.1446 |
| 80 | 1.396 | 0.9848 | 0.1736 | 5.6713 |
| 81 | 1.413 | 0.9877 | 0.1564 | 6.3138 |
| 82 | 1.430 | 0.9903 | 0.1392 | 7.1154 |
| 83 | 1.448 | 0.9925 | 0.1219 | 8.1443 |
| 84 | 1.465 | 0.9945 | 0.1045 | 9.5144 |
| 85 | 1.483 | 0.9962 | 0.0872 | 11.4301 |
| 86 | 1.500 | 0.9976 | 0.0698 | 14.3007 |
| 87 | 1.518 | 0.9986 | 0.0523 | 19.0811 |
| 88 | 1.535 | 0.9994 | 0.0349 | 28.6363 |
| 89 | 1.553 | 0.9998 | 0.0175 | 57.2900 |
| 90 | 1.570 | 1.0000 | 0.0000 | |

| θ | Deg | | | Tan |
|----|-------|--------|--------|--------|
| | Sin | Cos | Rad | |
| 0 | 0.000 | 1 | 0 | 0 |
| 1 | 0.017 | 0.9998 | 0.0175 | 0.0349 |
| 2 | 0.035 | 0.9994 | 0.0349 | 0.0524 |
| 3 | 0.052 | 0.9986 | 0.0523 | 0.0699 |
| 4 | 0.070 | 0.9976 | 0.0698 | 0.0875 |
| 5 | 0.087 | 0.9962 | 0.0872 | 0.1051 |
| 6 | 0.105 | 0.9945 | 0.1045 | 0.1228 |
| 7 | 0.122 | 0.9925 | 0.1219 | 0.1405 |
| 8 | 0.140 | 0.9903 | 0.1392 | 0.1584 |
| 9 | 0.157 | 0.9877 | 0.1564 | 0.1763 |
| 10 | 0.174 | 0.9848 | 0.1736 | 0.1944 |
| 11 | 0.192 | 0.9816 | 0.1908 | 0.2126 |
| 12 | 0.209 | 0.9781 | 0.2079 | 0.2309 |
| 13 | 0.227 | 0.9744 | 0.2250 | 0.2493 |
| 14 | 0.244 | 0.9703 | 0.2419 | 0.2679 |
| 15 | 0.262 | 0.9659 | 0.2588 | 0.2867 |
| 16 | 0.279 | 0.9613 | 0.2756 | 0.3057 |
| 17 | 0.297 | 0.9563 | 0.2924 | 0.3249 |
| 18 | 0.314 | 0.9511 | 0.3090 | 0.3443 |
| 19 | 0.331 | 0.9455 | 0.3256 | 0.3640 |
| 20 | 0.349 | 0.9397 | 0.3420 | 0.3839 |
| 21 | 0.366 | 0.9336 | 0.3584 | 0.4040 |
| 22 | 0.384 | 0.9272 | 0.3746 | 0.4245 |
| 23 | 0.401 | 0.9205 | 0.3907 | 0.4452 |
| 24 | 0.419 | 0.9135 | 0.4067 | 0.4663 |
| 25 | 0.436 | 0.9063 | 0.4226 | 0.4877 |
| 26 | 0.454 | 0.8988 | 0.4384 | 0.5095 |
| 27 | 0.471 | 0.8910 | 0.4540 | 0.5317 |
| 28 | 0.488 | 0.8829 | 0.4695 | 0.5543 |
| 29 | 0.506 | 0.8746 | 0.4848 | 0.5774 |
| 30 | 0.523 | 0.8660 | 0.5000 | 0.6009 |
| 31 | 0.541 | 0.8572 | 0.5150 | 0.6249 |
| 32 | 0.558 | 0.8480 | 0.5299 | 0.6494 |
| 33 | 0.576 | 0.8387 | 0.5446 | 0.6745 |
| 34 | 0.593 | 0.8290 | 0.5592 | 0.7002 |
| 35 | 0.611 | 0.8192 | 0.5736 | 0.7265 |
| 36 | 0.628 | 0.8090 | 0.5878 | 0.7536 |
| 37 | 0.645 | 0.8018 | 0.6018 | 0.7813 |
| 38 | 0.663 | 0.6157 | 0.7880 | 0.8098 |
| 39 | 0.680 | 0.6293 | 0.7771 | 0.8391 |
| 40 | 0.698 | 0.6428 | 0.7660 | 0.8693 |
| 41 | 0.715 | 0.6561 | 0.7547 | 0.8998 |
| 42 | 0.733 | 0.6691 | 0.7431 | 0.9325 |
| 43 | 0.750 | 0.6820 | 0.7314 | 0.9657 |
| 44 | 0.768 | 0.6947 | 0.7193 | 0.9986 |
| 45 | 0.785 | 0.7071 | 0.7071 | 1.0000 |

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