

Trigonometric Functions Reference

Period: 2π | Amplitude: 1

Sine $y = \sin(x)$

Domain: $(-\infty, \infty)$ | Range: $[-1, 1]$

Cosine $y = \cos(x)$

Domain: $(-\infty, \infty)$ | Range: $[-1, 1]$

Tangent $y = \tan(x)$

Period: π | Asymptotes: $\pi/2 + n\pi$

Cosecant $y = \csc(x)$

Reciprocal: $1 / \sin(x)$

\hat{I} , (deg)	0	30	45	60	90	180	270
$\sin(\hat{I})$	0	1/2	$\sqrt{2}/2$	$\sqrt{3}/2$	1	0	-1
$\cos(\hat{I})$	1	$\sqrt{3}/2$	$\sqrt{2}/2$	1/2	0	-1	0
$\tan(\hat{I})$	0	$\sqrt{3}/3$	1	$\sqrt{3}$	Undef.	0	Undef.

Fundamental Identities: $\sin^2 \hat{I} + \cos^2 \hat{I} = 1$ | $\tan \hat{I} = \sin \hat{I} / \cos \hat{I}$,