

UNIT CIRCLE REFERENCE

0 90 180 270

DEGREES	RADIANS	SIN (Y)	COS (X)	TAN (Y/X)
0	0	0	1	0
30	$\pi/6$	1/2	$\sqrt{3}/2$	$\sqrt{3}/3$
45	$\pi/4$	$\sqrt{2}/2$	$\sqrt{2}/2$	1
60	$\pi/3$	$\sqrt{3}/2$	1/2	$\sqrt{3}$
90	$\pi/2$	1	0	undefined
180	π	0	-1	0
270	$3\pi/2$	-1	0	undefined

Identity

$$\sin^2 \hat{I} + \cos^2 \hat{I} = 1$$

Tangent

$$\tan \hat{I} = \sin \hat{I} / \cos \hat{I}$$

Coordinates

$$(x, y) = (\cos \hat{I}, \sin \hat{I})$$