

UNIT CIRCLE REFERENCE CHART

Trigonometric Functions & Coordinates

[Diagram Area]

$(\hat{\alpha}^{\hat{2}/2}, \hat{\alpha}^{\hat{2}/2})$

$(1, 0)$

$(0, 1)$

Identities:

$\sin(\hat{I}) = y$ | $\cos(\hat{I}) = x$ | $\tan(\hat{I}) = y/x$

Degrees	Radians	(x, y) Coordinates
0	0	$(1, 0)$
30	$\hat{\pi}/6$	$(\hat{\alpha}^{\hat{3}/2}, 1/2)$
45	$\hat{\pi}/4$	$(\hat{\alpha}^{\hat{2}/2}, \hat{\alpha}^{\hat{2}/2})$
60	$\hat{\pi}/3$	$(1/2, \hat{\alpha}^{\hat{3}/2})$
90	$\hat{\pi}/2$	$(0, 1)$
120	$2\hat{\pi}/3$	$(-1/2, \hat{\alpha}^{\hat{3}/2})$
135	$3\hat{\pi}/4$	$(-\hat{\alpha}^{\hat{2}/2}, \hat{\alpha}^{\hat{2}/2})$
150	$5\hat{\pi}/6$	$(-\hat{\alpha}^{\hat{3}/2}, 1/2)$
180	$\hat{\pi}$	$(-1, 0)$
270	$3\hat{\pi}/2$	$(0, -1)$

Unit Circle Formula: $x^{\hat{2}} + y^{\hat{2}} = 1$