

Quadrant 1 Values

Angle	2π or $0^\circ/360^\circ$	$\pi/6$ or 30°	$\pi/4$ or 45°	$\pi/3$ or 60°	$\pi/2$ or 90°
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Quadrant 1 Values (cont)

Cosine	1	$\sqrt{3}/2$	$\sqrt{2}/2$	$1/2$	0
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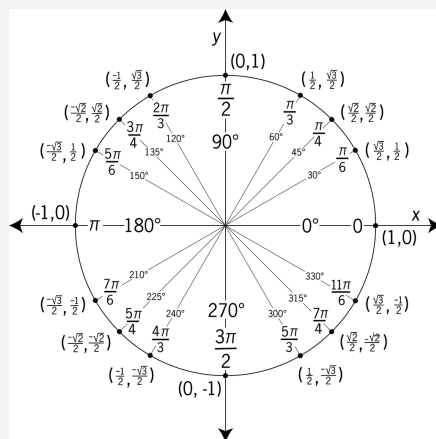
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Quadrant 1 Values (cont)

Sine	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
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Unit Circle



Unit Circle Measurements

Area	πr^2
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Unit Circle Measurements (cont)

Diameter	$2r$
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Unit Circle Measurements (cont)

Circumference	$2\pi r$ or πd
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Unit Circle Measurements (cont)

Arc Length	θr
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Unit Circle Measurements (cont)

Period Repeating Function $f(x + P) = f(x)$

r = radius

d = diameter

θ = angle in radians

P = period (smallest interval)

Degrees & Radians

Degrees to Radians $\theta \cdot \pi / 180$

Degrees & Radians (cont)

Radians to Degrees $\theta \cdot 180 / \pi$



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Sin Cos Tan

Sine	Opposite/Hypotenuse
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Sin Cos Tan (cont)

Cosine	Adjacent/Hypotenuse
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Sin Cos Tan (cont)

Tangent	Opposite/Adjacent
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Cosecant, Secant, Cotangent

Cosecant	Hypotenuse/Opposite
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Cosecant, Secant, Cotangent (cont)

Secant	Hypotenuse/Adjacent
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Cosecant, Secant, Cotangent (cont)

Cotangent	Adjacent/Opposite
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Unit Circle Values

Sine	y
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Unit Circle Values (cont)

Cosine	x
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Unit Circle Values (cont)

Tangent	y/x
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Unit Circle Values (cont)

Cosecant	$1/y$
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Unit Circle Values (cont)

Secant	$1/x$
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Unit Circle Values (cont)

Cotangent	x/y
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Identities

$$\sin^2\theta + \cos^2\theta = 1$$

Identities (cont)

$$1 + \tan^2\theta = \sec^2\theta$$

Identities (cont)

$$1 + \cot^2\theta = \csc^2\theta$$



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Evens & Odds

Even $f(-x) = f(x)$ | Cos & Sec

Evens & Odds (cont)

Odd $f(-x) = -f(x)$ | Sin Tan Csc Cot

Supplementary & Complementary Angles

Supplementary Angles

Add to 180°



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Supplementary & Complementary Angles (cont)

Complementary Angles Add to 90°

Coterminal Angles

$\theta \pm 360^\circ$

$\theta \pm 2\pi$

Quadrantal Angles

45° or $(\pi/4) \therefore y=x$

$$x^2 + y^2 = 1$$

$$x^2 + x^2 = 1$$

$$2x^2 = 1$$

$$x^2 = 1/2$$

$$x = \pm 1/\sqrt{2}$$

$$\text{in Q1 } x = 1/\sqrt{2}$$

$$\cos \& \sin = 1/\sqrt{2} \cdot \sqrt{2}/\sqrt{2} = \sqrt{2}/2$$



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