Precalculus

4-05 Trigonometric Functions of Any Angle

Circular Trig Functions

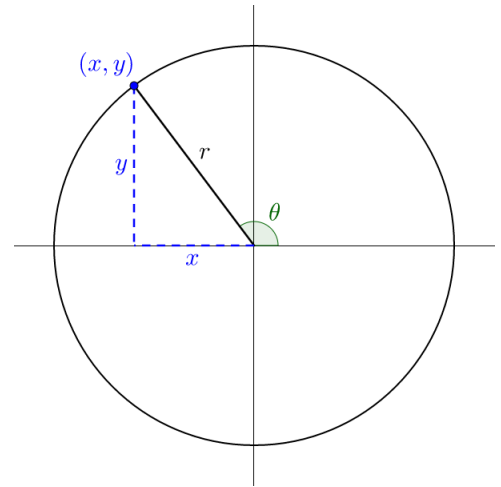$\sin\theta =$ _____ $\csc\theta =$ _____
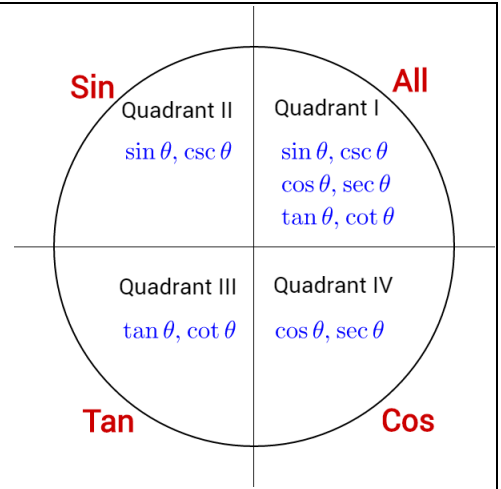$\cos\theta =$ _____ $\sec\theta =$ _____
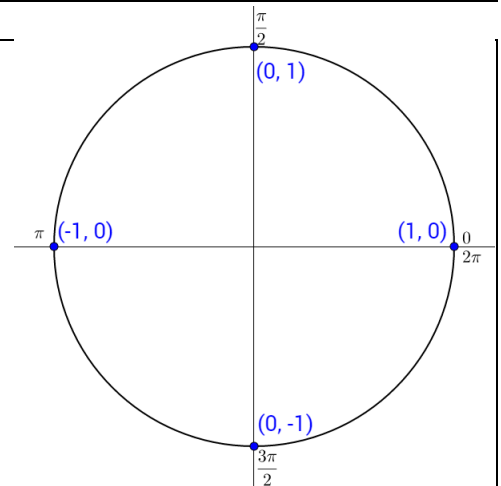$\tan\theta =$ _____ $\cot\theta =$ _____
$r = \sqrt{x^2 + y^2}$

Let $(-2, 3)$ be a point on the terminal side of θ. Find sine, cosine, and tangent of θ.

Given $\sin\theta = \frac{4}{5}$ and $\tan\theta < 0$, find $\cos\theta$ and $\csc\theta$.

Evaluate $\sin\pi$ $\tan\frac{\pi}{2}$

Reference Angle

- Angle between _____side and nearest _____

Find the reference angle for $\frac{5\pi}{4}$

Find the reference angle for $\frac{5\pi}{3}$

Use a reference angle to evaluate $\cos\frac{5\pi}{3}$ $\sin 150°$

Use a reference angle to evaluate $\tan\frac{11\pi}{6}$

Let θ be an angle in quadrant III such that $\sin\theta = -\frac{5}{13}$. Find

$\sec\theta$ $\tan\theta$