

## Trigonometric Functions

If the terminal side of a standard angle  $\theta$  passes through the point  
 (a, b), which is a distance of  $r = \sqrt{a^2 + b^2}$  from the origin, then the  
 six trigonometric functions for this angle can be defined as follows:

$$\sin \theta = \frac{b}{r}$$

$$\csc \theta = \frac{r}{b}$$

$$\cos \theta = \frac{a}{r}$$

$$\sec \theta = \frac{r}{a}$$

$$\tan \theta = \frac{b}{a}$$

$$\cot \theta = \frac{a}{b}$$

$$\sin \theta = \frac{y}{r}$$

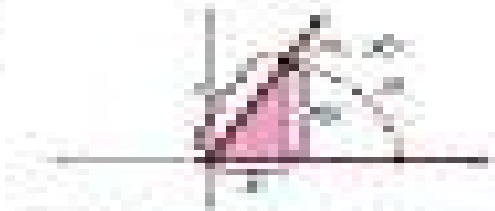
$$\csc \theta = \frac{r}{y}$$

$$\cos \theta = \frac{x}{r}$$

$$\sec \theta = \frac{r}{x}$$

$$\tan \theta = \frac{y}{x}$$

$$\cot \theta = \frac{x}{y}$$



Recall that standard angles are given relative to the positive x-axis. What about angles that do not have their terminal side in standard position?

**Example:** Suppose the terminal side of a standard angle  $\theta$  passes through the point  $(-3, 4)$ .

(a) Does angle  $\theta$  lie in standard position?

(b) Find the distance from  $(-3, 4)$  to the origin using  $r = \sqrt{a^2 + b^2}$ .

(c) Evaluate the six trigonometric functions for this angle.

$$\sin \theta =$$

$$\csc \theta =$$

$$\cos \theta =$$

$$\sec \theta =$$

$$\tan \theta =$$

$$\cot \theta =$$

(d) Suppose angle  $\theta$  measures approximately  $-222.37^\circ$ . Use this calculation to verify the five trigonometric values that you obtain for angle  $\theta$  in standard position.

### NOTES:

The "reference triangle" can be formed by drawing a perpendicular segment from a point on the angle's terminal side to the x-axis. This perpendicular segment (a positive value) will be the "opposite" side, and the distance from the horizontal distance from origin (or x-value) will be the "adjacent" side. Also, however, the opposite and adjacent legs can be negative.



if opposite leg	if opposite leg	if opposite
is positive, measured from x-axis	is positive, measured from x-axis	is positive, measured from x-axis
is negative, measured from x-axis	is negative, measured from x-axis	is negative, measured from x-axis

# Precalculus Hs Mathematics Unit Lesson Trigonometric Technology

**M Mosston**



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