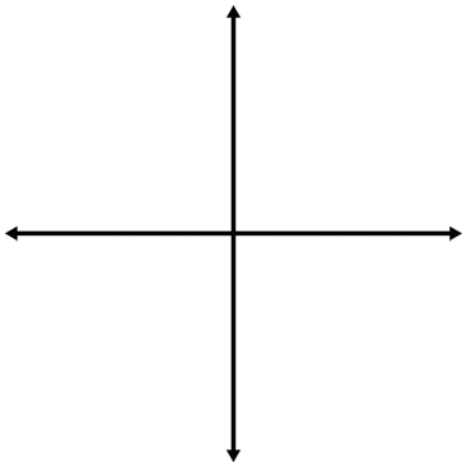
Honors Algebra 2 **Name _____**
x, y and r and ASTC **Date: _____ Period: ____**

Find the 6 trig functions for each angle in standard position having the given point on its terminal side.

1.) $(-3,4)$

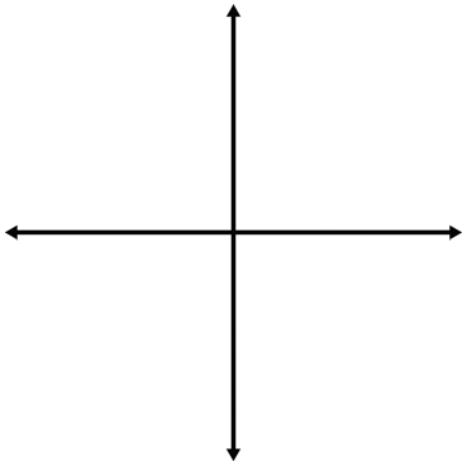


$\boldsymbol{\sin\theta =}$ _____ $\boldsymbol{\csc\theta =}$ _____

$\boldsymbol{\cos\theta =}$ _____ $\boldsymbol{\sec\theta =}$ _____

$\boldsymbol{\tan\theta =}$ _____ $\boldsymbol{\cot\theta =}$ _____

2.) $(-4,-3)$

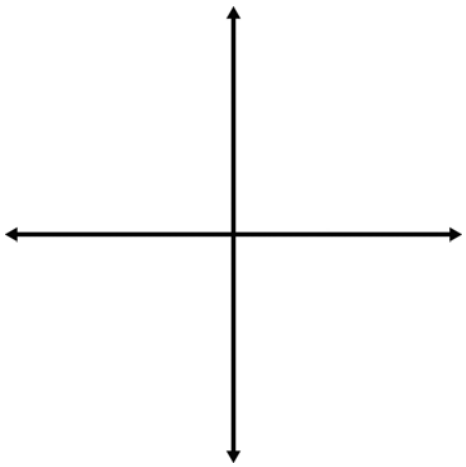


$\boldsymbol{\sin\theta =}$ _____ $\boldsymbol{\csc\theta =}$ _____

$\boldsymbol{\cos\theta =}$ _____ $\boldsymbol{\sec\theta =}$ _____

$\boldsymbol{\tan\theta =}$ _____ $\boldsymbol{\cot\theta =}$ _____

3.) $\left(-2\sqrt{3},-2\right)$

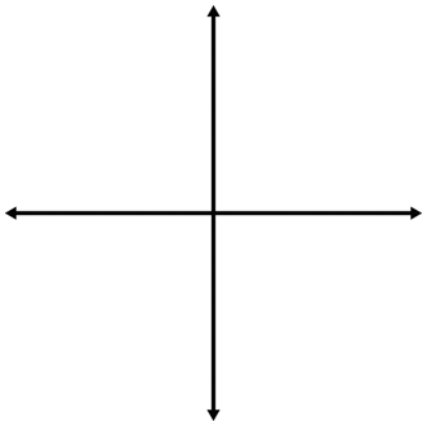


$\boldsymbol{\sin\theta =}$ _____ $\boldsymbol{\csc\theta =}$ _____

$\boldsymbol{\cos\theta =}$ _____ $\boldsymbol{\sec\theta =}$ _____

$\boldsymbol{\tan\theta =}$ _____ $\boldsymbol{\cot\theta =}$ _____

4.) $(1, \sqrt{3})$

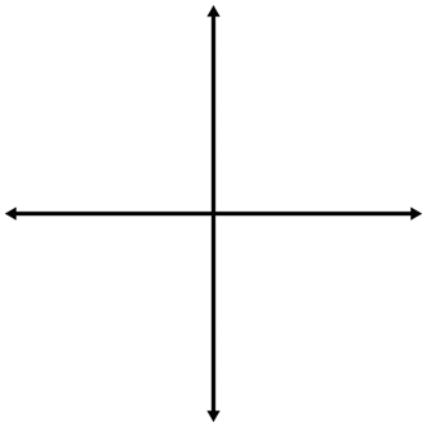


$\sin\theta =$ _____ $\csc\theta =$ _____

$\cos\theta =$ _____ $\sec\theta =$ _____

$\tan\theta =$ _____ $\cot\theta =$ _____

5.) $(6\sqrt{3} - 6)$

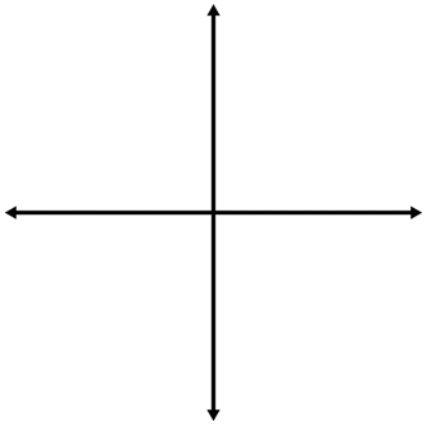


$\sin\theta =$ _____ $\csc\theta =$ _____

$\cos\theta =$ _____ $\sec\theta =$ _____

$\tan\theta =$ _____ $\cot\theta =$ _____

6.) $(0, -2)$



$\sin\theta =$ _____ $\csc\theta =$ _____

$\cos\theta =$ _____ $\sec\theta =$ _____

$\tan\theta =$ _____ $\cot\theta =$ _____

Suppose that the point (x, y) is in the indicated quadrant. Decide whether the given ratio is <u>positive</u> or <u>negative.</u>

7.) **III;** $\frac{y}{r}$ **8.)** **IV;** $\frac{x}{y}$ **9.)** **II;** $\frac{y}{r}$ **10.)** **III;** $\frac{x}{r}$