

Trig practice quiz 2

Name \_\_\_\_\_

1. Find each trig value.

$$\sin\left(-\frac{\pi}{4}\right)$$

$$\cos\left(\frac{7\pi}{6}\right)$$

$$\tan\left(-\frac{4\pi}{3}\right)$$

$$\sin(5\pi)$$

$$\cos\left(\frac{25\pi}{4}\right)$$

$$\tan\left(-\frac{11}{2}\pi\right)$$

2. Given  $\sin \theta = -3/5$  and  $\tan \theta < 0$ :

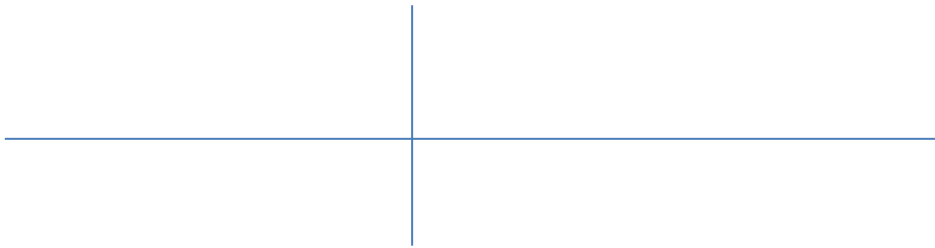
a) What quadrant is  $\theta$  in?

b) Draw a circle and label the angle and the sides of the triangle that corresponds to the problem. Label all the sides of the triangle, *including the missing side* (with its *value!*).

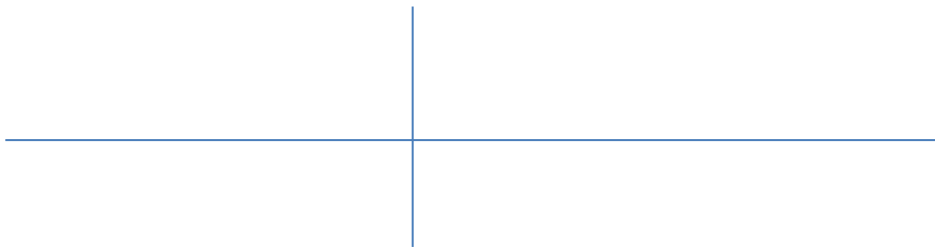
c) Find the *coordinates of the point* where the terminal side of  $\theta$  intersects the *unit* circle?

4. Graph the following functions, showing two full periods of the graph with the angle divisions and endpoints labeled clearly. Filling in the info will help!

$f(x) = -\sin\left(x - \frac{\pi}{2}\right)$     Amp:            Period:            Shift:            Reflection:



$g(x) = 3\cos(2x) - 1$     Amp:            Period:            Shift:            Reflection:



$g(x) = -\cos(\pi x) + 1$     Amp:            Period:            Shift:            Reflection:

