Find all trig values of θ if $\sin\theta=-\dfrac{3}{5}$

and $\tan\theta<0$

12-3 Evaluating Trig Functions
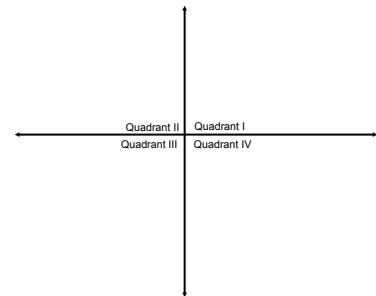
Objectives:

- I can find all trig ratios given another

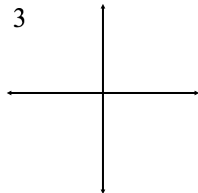- I can find exact values of a trig ratios

Find all trig values of θ if $\tan\theta=\dfrac{2}{7}$

and $\sin\theta>0$

Reference Angles: The acute angle formed by the terminal side and the x-axis.
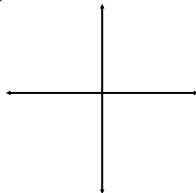
Quadrant II	Quadrant I
Quadrant III	Quadrant IV

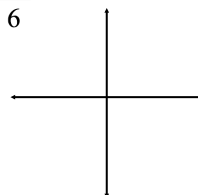Draw the given angle and state the reference angle.
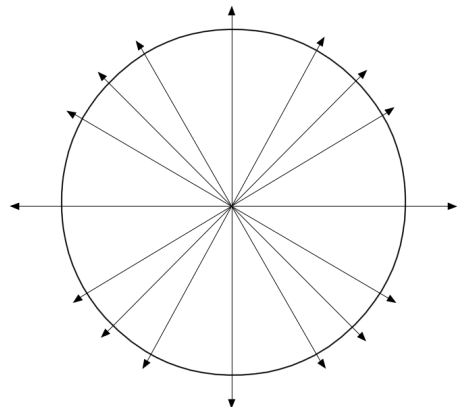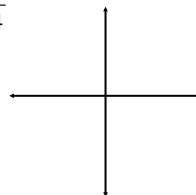
$\dfrac{2\pi}{3}$

$\dfrac{\pi}{6}$

$\dfrac{7\pi}{6}$

$-\dfrac{\pi}{4}$

12-3

Find the following for each angle:

a) Quadrant

b) Reference Angle

c) Point

$$\frac{5\pi}{3} \qquad\qquad -\frac{5\pi}{4}$$

Find the exact value of the following

$$\sin\pi = \qquad\qquad \csc\frac{5\pi}{4} =$$

$$\cos\frac{3\pi}{4} = \qquad\qquad \sec\frac{\pi}{6} =$$

$$\tan\frac{11\pi}{6} = \qquad\qquad \cot\frac{\pi}{3} =$$

$$\tan\left(-\frac{\pi}{4}\right) \qquad\qquad \sec\left(-\frac{3\pi}{2}\right)$$