

UNIT 6 WORKSHEET 14
EVALUATING TRIG FUNCTIONS OF ANY ANGLE

Evaluate the six trigonometric functions of the angle θ , in standard position, that has a terminal side with the following endpoints. (Remember, reference angles are always drawn in relation to the x axis.)

A) $(3, 5)$

B) $(2, -1)$

$$\begin{array}{ll} \sin \theta = & \csc \theta = \\ \cos \theta = & \sec \theta = \\ \tan \theta = & \cot \theta = \end{array}$$

$$\begin{array}{ll} \sin \theta = & \csc \theta = \\ \cos \theta = & \sec \theta = \\ \tan \theta = & \cot \theta = \end{array}$$

C) $(-4, 2)$

D) $(-3, -5)$

$$\begin{array}{ll} \sin \theta = & \csc \theta = \\ \cos \theta = & \sec \theta = \\ \tan \theta = & \cot \theta = \end{array}$$

$$\begin{array}{ll} \sin \theta = & \csc \theta = \\ \cos \theta = & \sec \theta = \\ \tan \theta = & \cot \theta = \end{array}$$

E) $(1, -7)$

F) $(-6, 1)$

$$\begin{array}{ll} \sin \theta = & \csc \theta = \\ \cos \theta = & \sec \theta = \\ \tan \theta = & \cot \theta = \end{array}$$

$$\begin{array}{ll} \sin \theta = & \csc \theta = \\ \cos \theta = & \sec \theta = \\ \tan \theta = & \cot \theta = \end{array}$$

$$\mathbf{G)} \left(\frac{1}{2}, 8 \right)$$

$$\mathbf{H)} \left(\frac{1}{4}, -\frac{2}{5} \right)$$

$$\sin \theta = \qquad \csc \theta =$$

$$\cos \theta = \qquad \sec \theta =$$

$$\tan \theta = \qquad \cot \theta =$$

$$\sin \theta = \qquad \csc \theta =$$

$$\cos \theta = \qquad \sec \theta =$$

$$\tan \theta = \qquad \cot \theta =$$

$$\mathbf{I)} (-2, -9)$$

$$\mathbf{J)} (-1, 6)$$

$$\sin \theta = \qquad \csc \theta =$$

$$\cos \theta = \qquad \sec \theta =$$

$$\tan \theta = \qquad \cot \theta =$$

$$\sin \theta = \qquad \csc \theta =$$

$$\cos \theta = \qquad \sec \theta =$$

$$\tan \theta = \qquad \cot \theta =$$

$$\mathbf{K)} (4, -3)$$

$$\mathbf{L)} \left(\frac{3}{4}, \frac{4}{5} \right)$$

$$\sin \theta = \qquad \csc \theta =$$

$$\cos \theta = \qquad \sec \theta =$$

$$\tan \theta = \qquad \cot \theta =$$

$$\sin \theta = \qquad \csc \theta =$$

$$\cos \theta = \qquad \sec \theta =$$

$$\tan \theta = \qquad \cot \theta =$$