Trigonometric Ratios with Obtuse Angles

For each given point that lies on the terminal arm of an angle:

- a. Sketch a diagram for the angle in standard position.
- b. Determine the distance from the origin to the point.
- c. Determine the primary trigonometric ratios to four decimal places.
- d. Determine the measure of the angle.
 - 1. Point P (3, 4)

2. Point Q (2, 7)

3. Point R (-4, 3)

4. Point S(-6, 5)

The tangent of an obtuse angle, θ , in standard position is $-\frac{12}{5}$.

- a. Sketch a diagram of angle θ .
- b. Identify the coordinates of a point that lies on the terminal arm of angle θ .
- c. Determine $\sin \theta$ and $\cos \theta$.
- d. Determine the measure of angle θ .