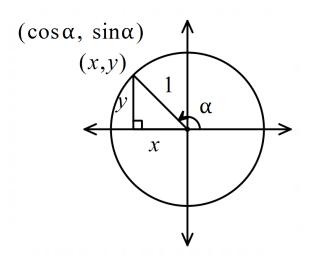
Date:

Objective:

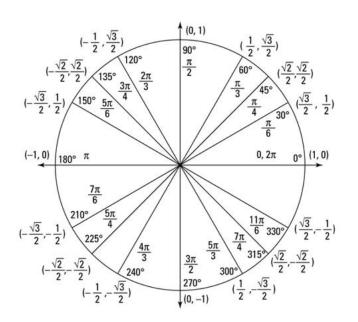
REVIEW



$$\sin \alpha = \cos \alpha =$$

$$\tan \alpha = \qquad \qquad \csc \alpha =$$

$$\sec \alpha = \cot \alpha =$$



Find the angle in degrees [0°, 360°) and radians $[0, 2\pi)$ on the unit circle that matches the given ordered pair. Then find all 6 trigonometric ratios for the found angle.

1.
$$\left(-\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$$
 $\theta =$ ______

$$\sin \theta = \underline{\hspace{1cm}} \cos \theta = \underline{\hspace{1cm}}$$

$$\tan \theta = \underline{\qquad} \qquad \csc \theta = \underline{\qquad}$$

$$\sec \theta = \underline{\hspace{1cm}} \cot \theta = \underline{\hspace{1cm}}$$

2.
$$(-1,0)$$
 $\theta = ______$

$$\theta =$$

$$\sin \theta = \underline{\hspace{1cm}} \cos \theta = \underline{\hspace{1cm}}$$

$$\tan \theta = \underline{\qquad} \qquad \csc \theta = \underline{\qquad}$$

$$\sec \theta = \underline{\hspace{1cm}} \cot \theta = \underline{\hspace{1cm}}$$

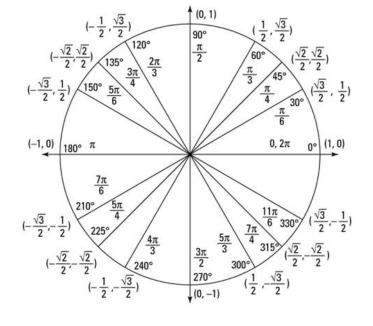
3.
$$\left(\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$$
 $\theta =$

$$\sin \theta =$$
 $\cos \theta =$

$$\tan \theta = \underline{\qquad} \qquad \csc \theta = \underline{\qquad}$$

$$\sec \theta = \underline{\hspace{1cm}} \cot \theta = \underline{\hspace{1cm}}$$

- 1. What is a coterminal angle?
- 2. How do you find a coterminal angle for a degree?
- 3. How do you find a coterminal angle for a radian?
- 4. What is a coterminal angle for 225°?
- 5. What is a coterminal angle for $-\frac{\pi}{6}$?
- 6. Are $\frac{\pi}{3}$ and $\frac{7\pi}{3}$ coterminal angles?



- 7a. Sketch the angle $\frac{\pi}{3}$. 7b. What is the ordered pair for $\frac{\pi}{3}$? 7c. Find cosine of $\frac{\pi}{3}$?

- 8a. Sketch the angle $\frac{7\pi}{3}$. 8b. What is the ordered pair for $\frac{7\pi}{3}$? 8c. Find cosine of $\frac{7\pi}{3}$?

Notice they have the same cosine. Coterminal angles have the same trigonometric ratios.

Find the exact value (ratio) of each trigonometric function using the Unit Circle as a reference.

1. sin 690°

2. $\tan \frac{17\pi}{6}$

3. $\sec\left(-\frac{5\pi}{2}\right)$

4. $\cot(-495^{\circ})$

5. $\cos 7\pi$

6. $\csc\left(-\frac{8\pi}{3}\right)$