

Find the amplitude, period, and phase shift by using the following formulas:

$$\text{Period} = \frac{2\pi}{\omega} \quad \omega = \text{the number in front of } \theta$$

$$\text{Phase shift} = -\frac{\theta}{\omega}$$

$$y = 5 \sin(3\theta - 5)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = 2 \sin(\theta + 1)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = \sin(7\theta - 4)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = 3 \sin(\frac{\pi}{2}\theta)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = \sin(\frac{3\pi}{2}\theta + 1)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = \sin(\theta + 3)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = \cos(\theta + 3)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = \cos(4\theta - 1)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = \cos(\frac{\pi}{4}\theta - 5)$$
 amplitude _____ Period _____ Phase Shift _____

$$y = \cos(\pi\theta - 6)$$
 amplitude _____ Period _____ Phase Shift _____

Using the unit circle find the following values:

$$\sin 240^\circ = \underline{\hspace{2cm}}$$
 $\sec 120^\circ = \underline{\hspace{2cm}}$ $\tan 180^\circ = \underline{\hspace{2cm}}$ $\tan 270^\circ = \underline{\hspace{2cm}}$

$$\cos \frac{5\pi}{2} = \underline{\hspace{2cm}}$$
 $\cos \frac{\pi}{2} = \underline{\hspace{2cm}}$ $\csc \frac{4\pi}{3} = \underline{\hspace{2cm}}$ $\cot \frac{3\pi}{2} = \underline{\hspace{2cm}}$