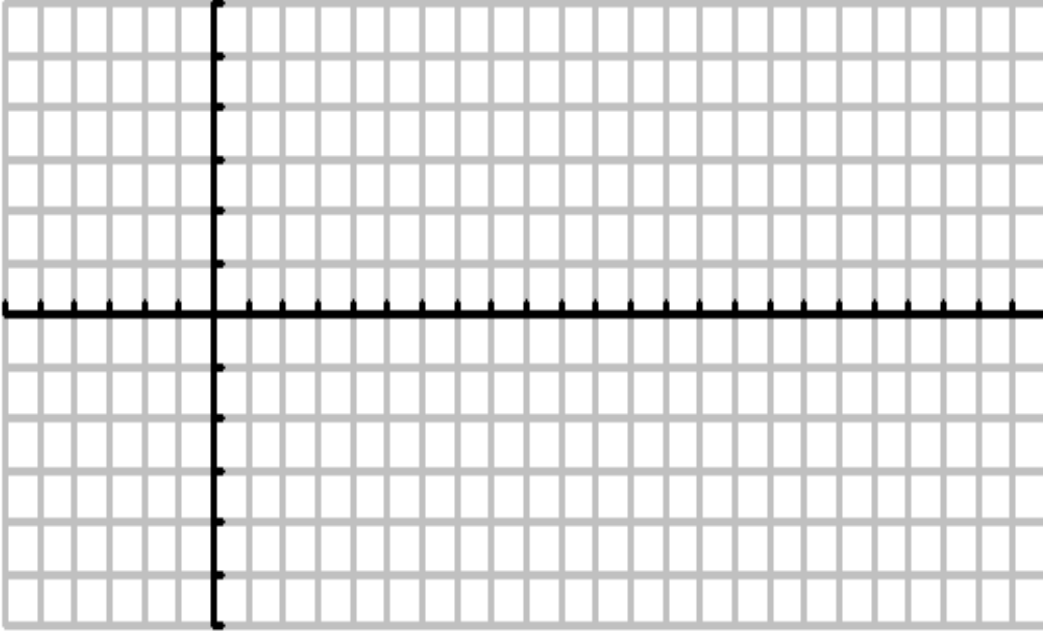


**Riding the BIG wave...with trigonometry**

1.  $y = 2 \cos \theta$



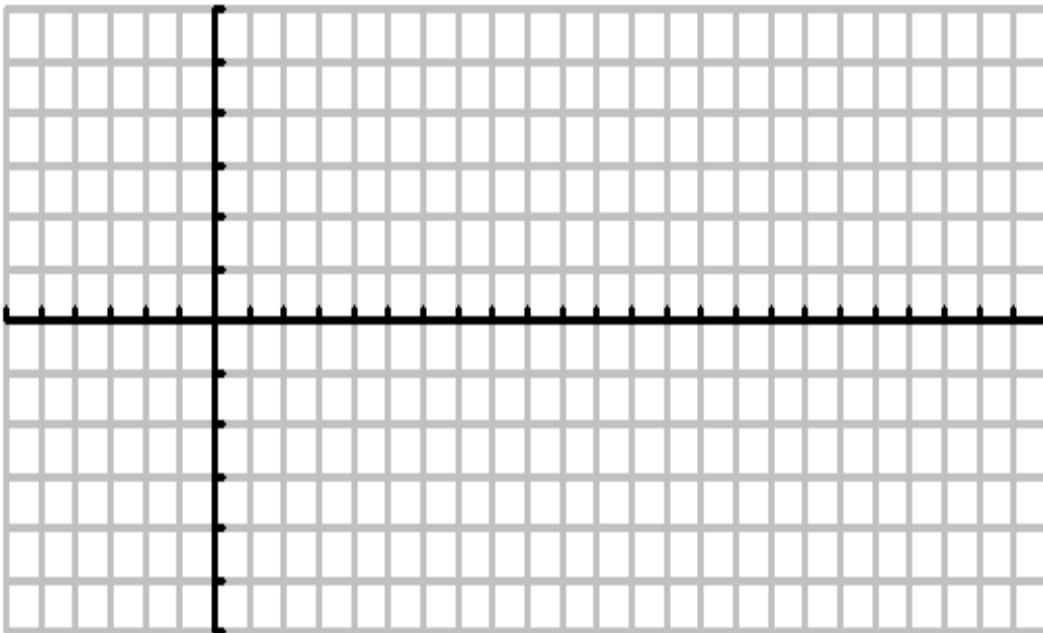
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

2.  $y = 2 \sin \theta$



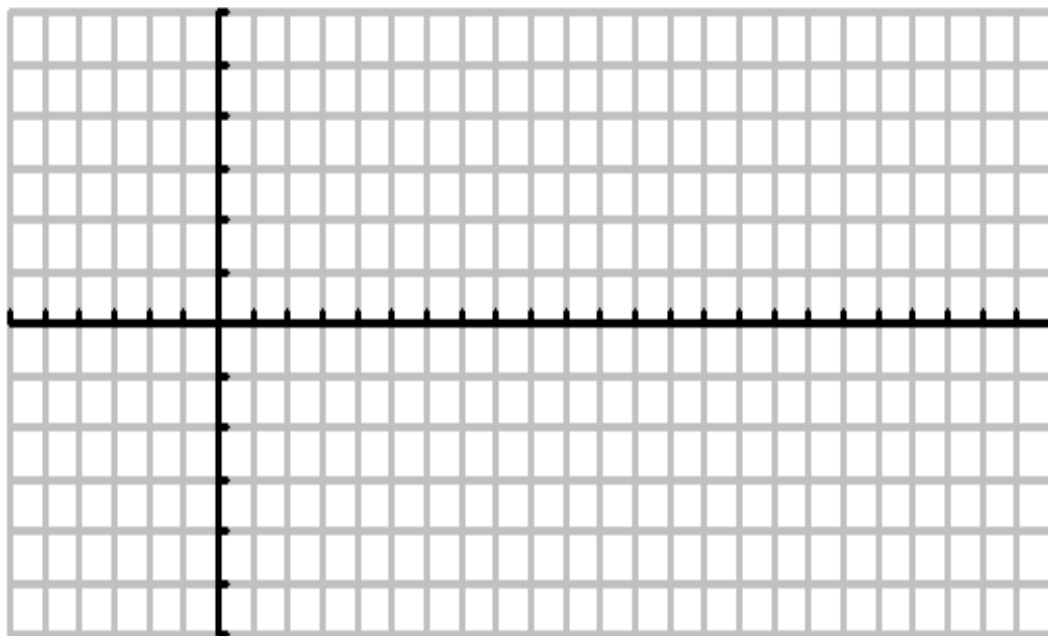
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

3.  $y = \cos(\theta + \frac{2\pi}{3})$



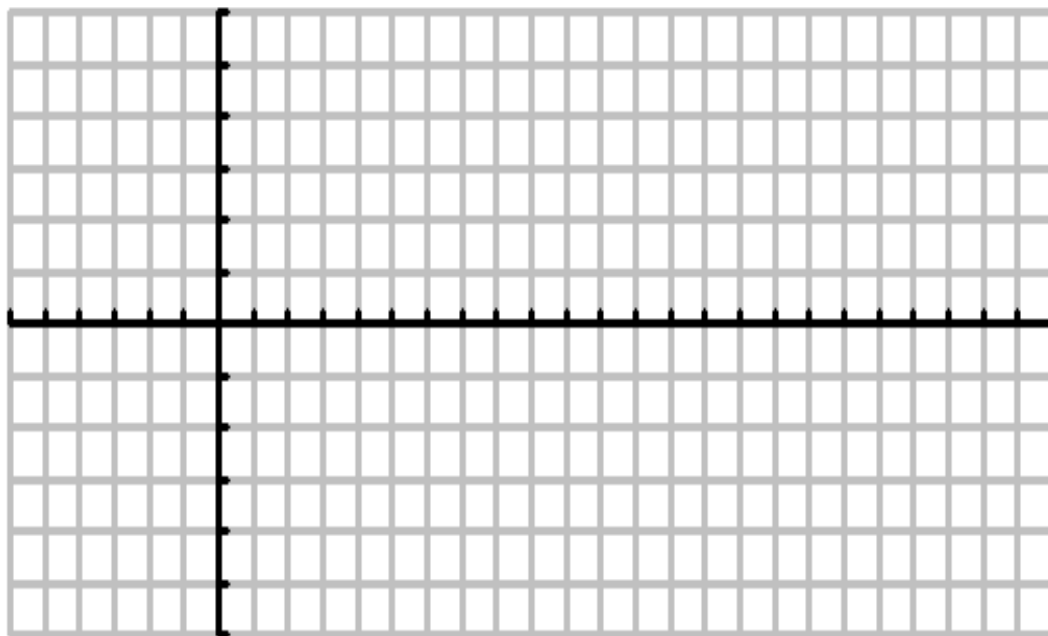
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

4.  $y = \sin(\theta - \frac{11\pi}{6})$



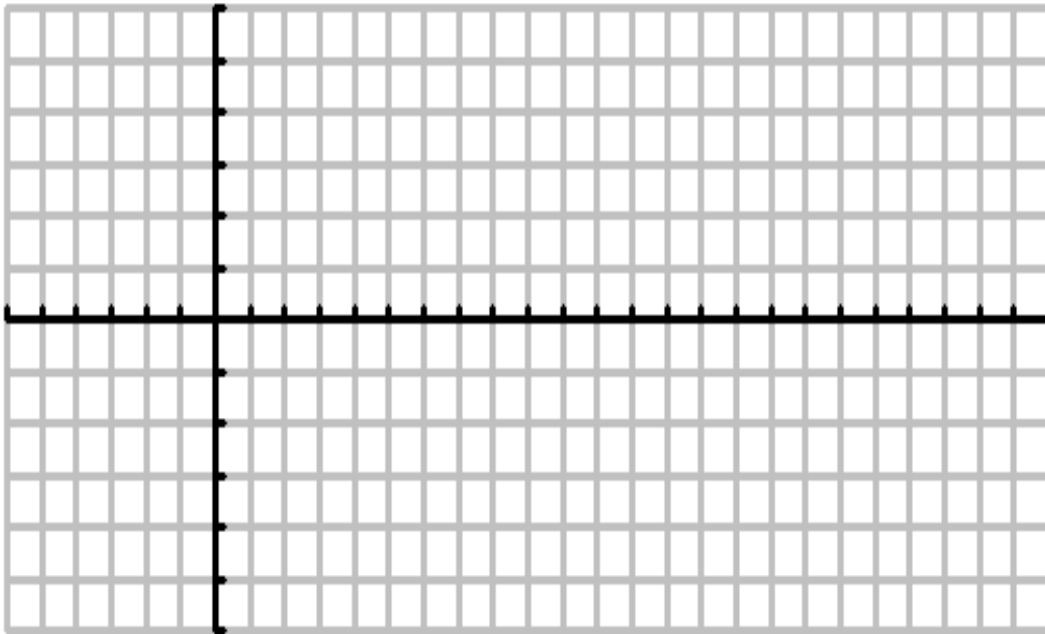
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

5.  $y = \cos \frac{\theta}{3}$



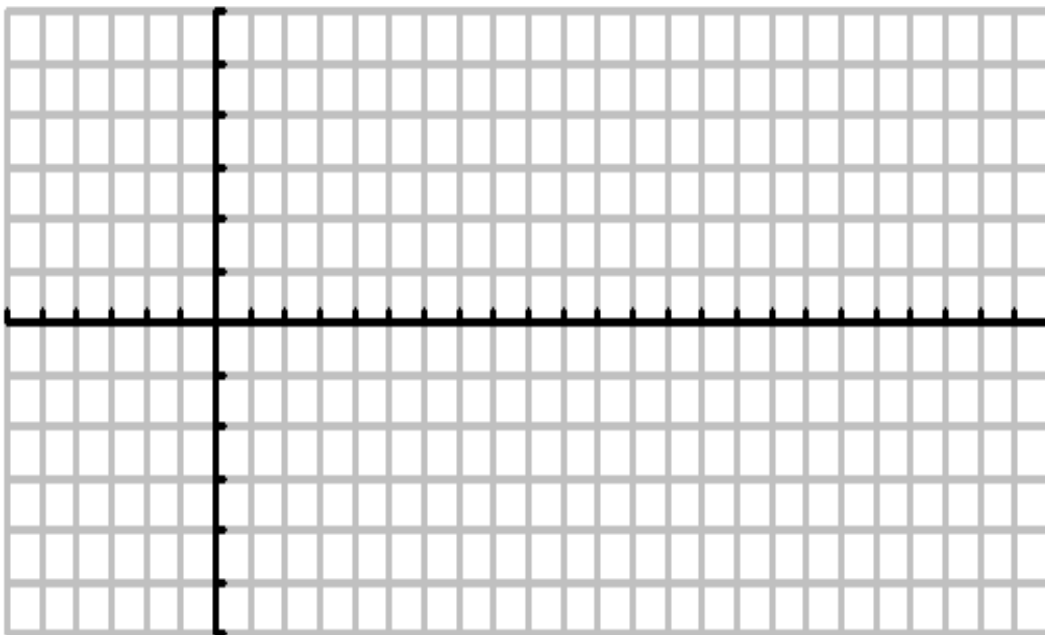
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

6.  $y = \sin 4\theta$



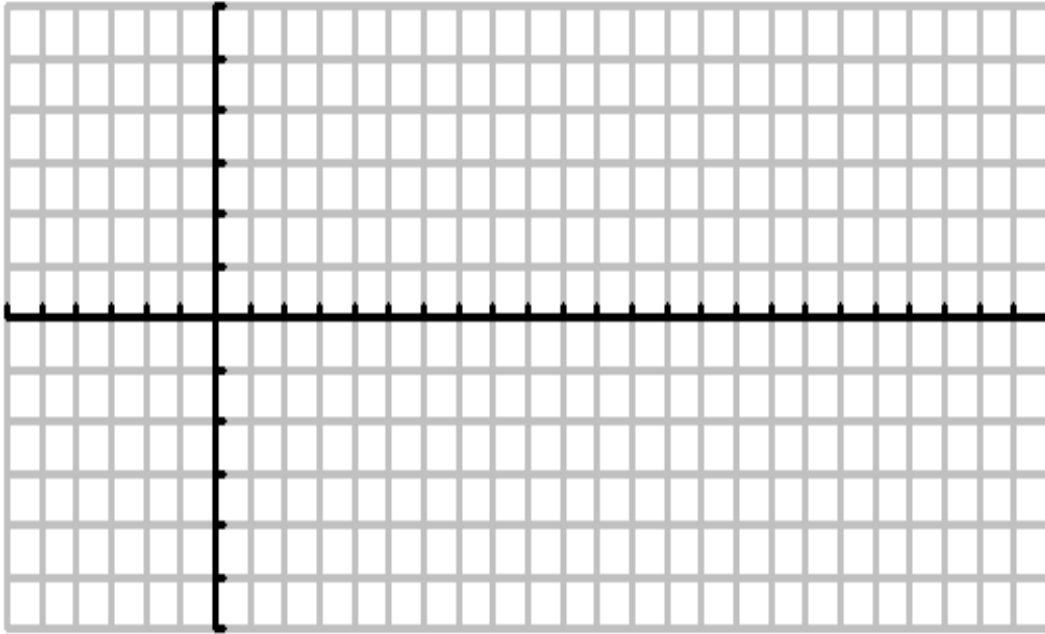
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

7.  $y = 1 + \cos \theta$



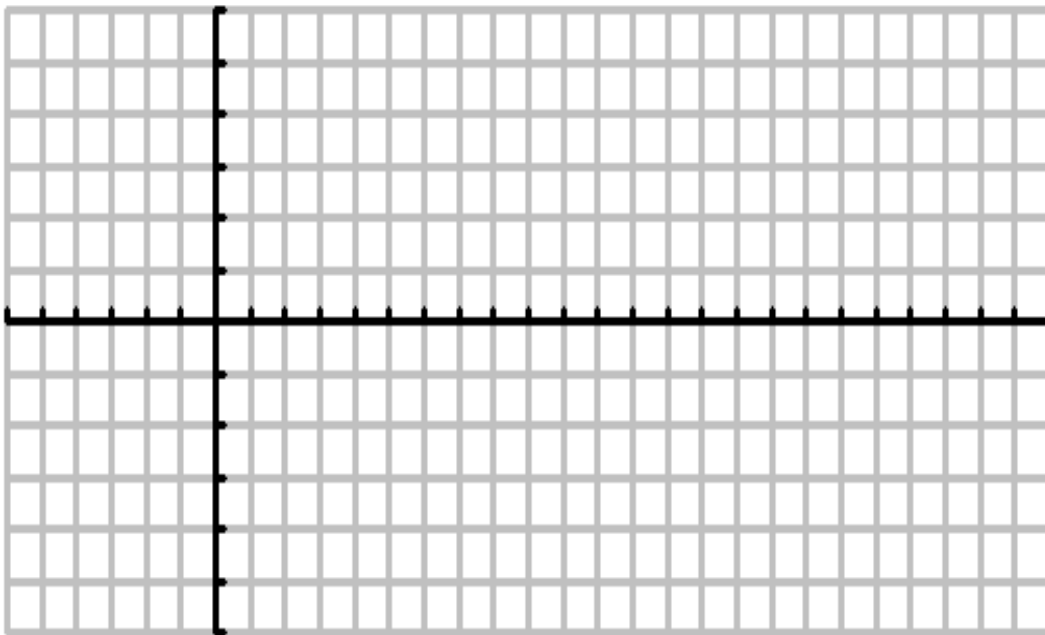
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

8.  $y = 2 + \sin \theta$



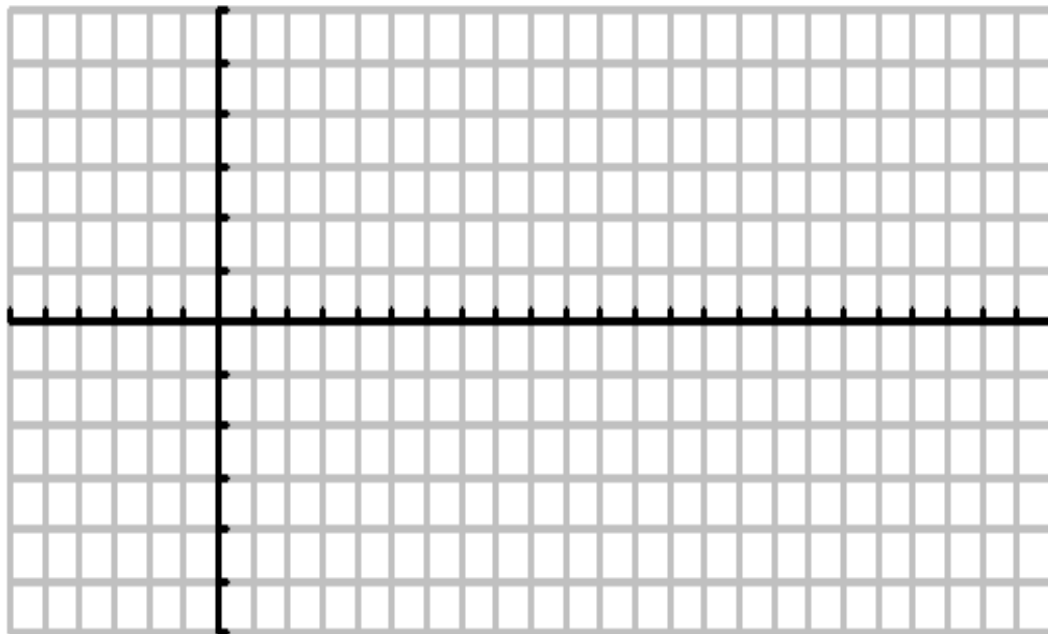
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

9.  $y = -2 + 4 \cos \theta$



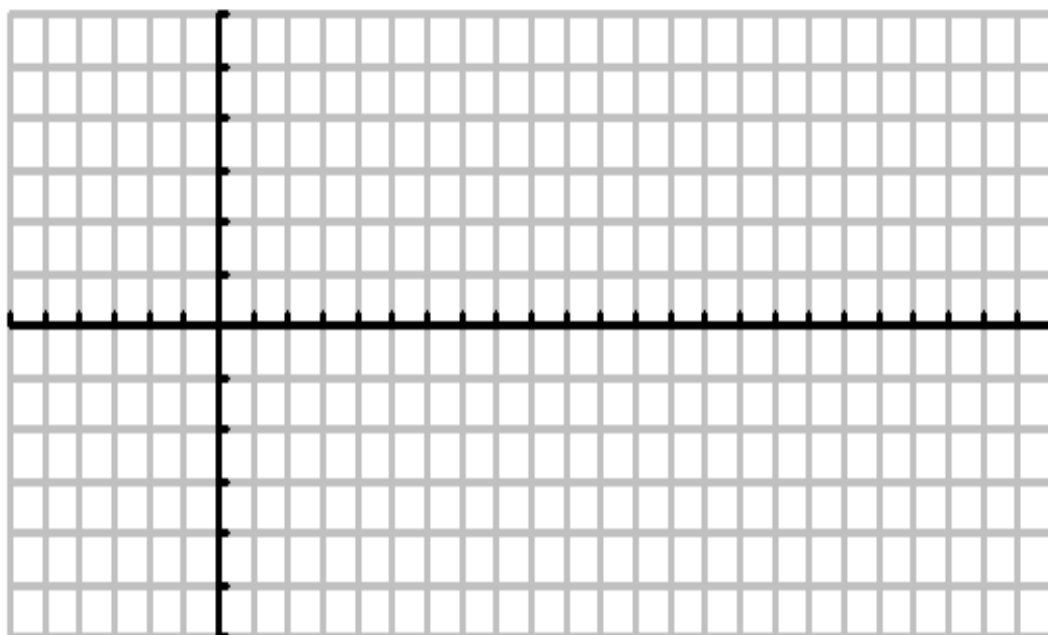
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

10.  $y = -1 + \frac{1}{2} \sin \theta$



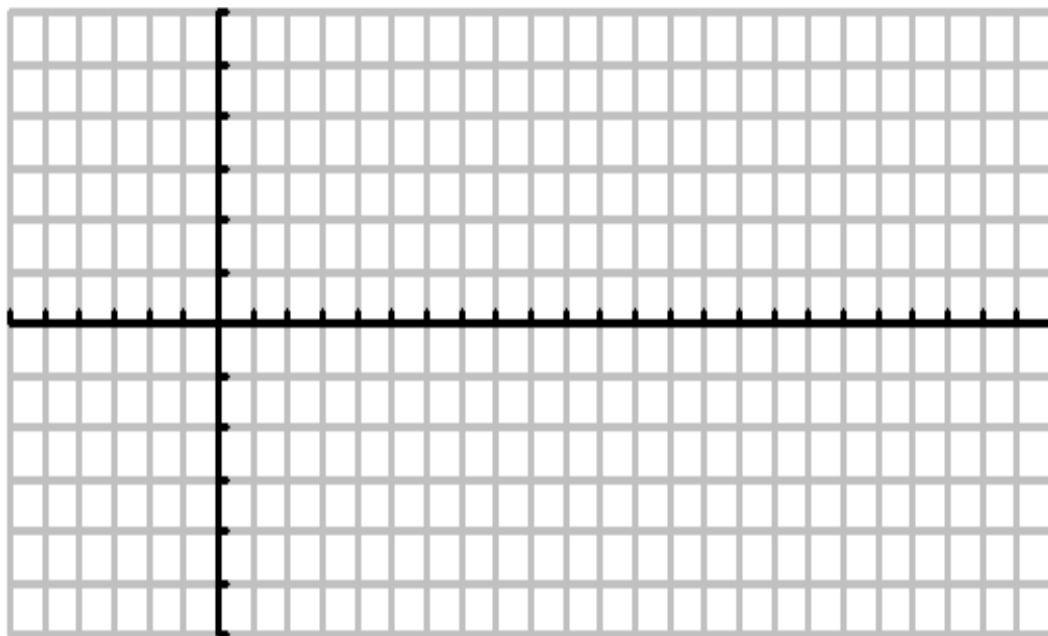
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

11.  $y = \cos(2\theta - \frac{5\pi}{6})$



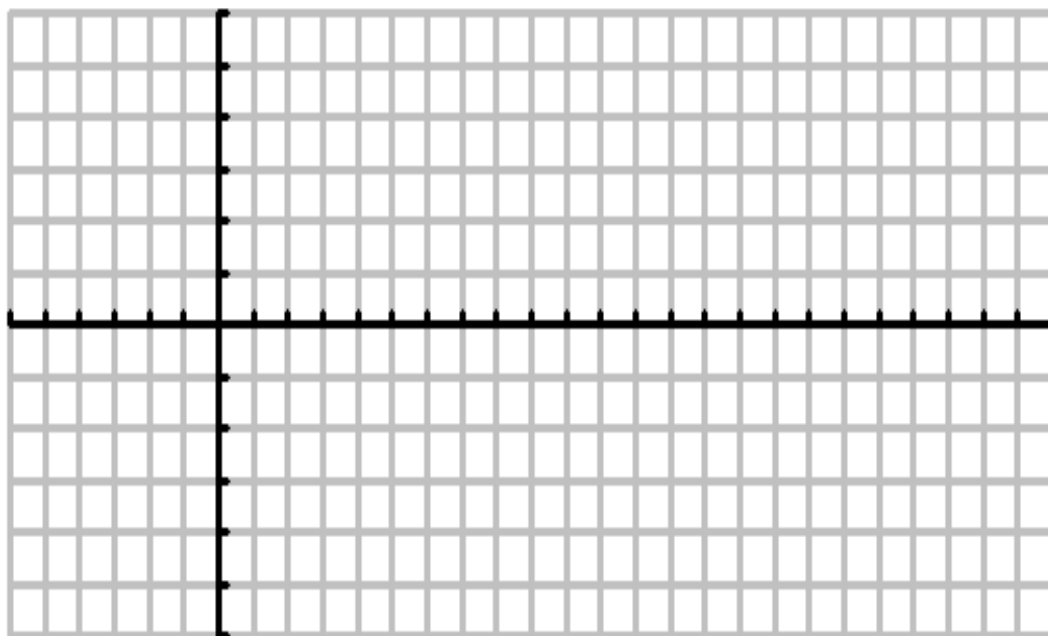
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

12.  $y = \sin(3\theta + \frac{2\pi}{3})$



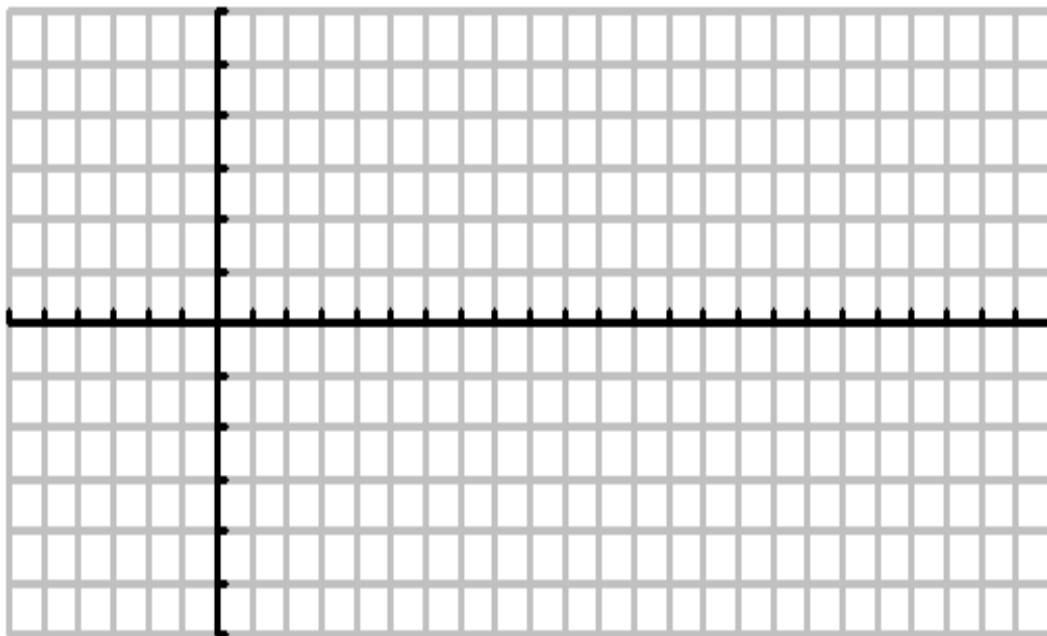
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

13.  $y = \sin\left(\frac{\theta}{2} + \frac{\pi}{6}\right)$



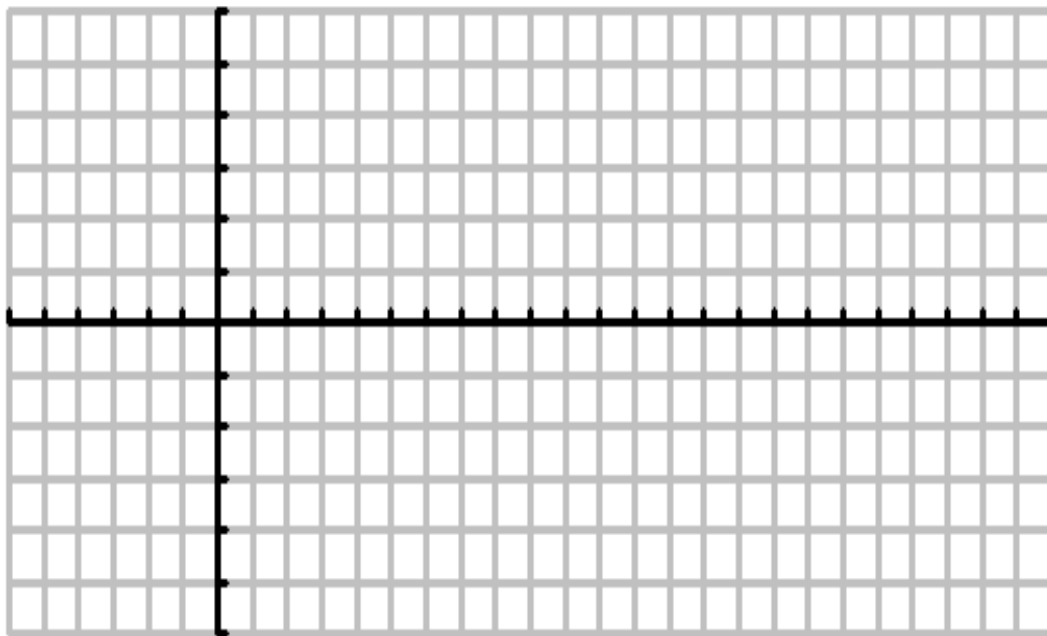
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

14.  $y = \sin\left(2\theta + \frac{\pi}{3}\right)$



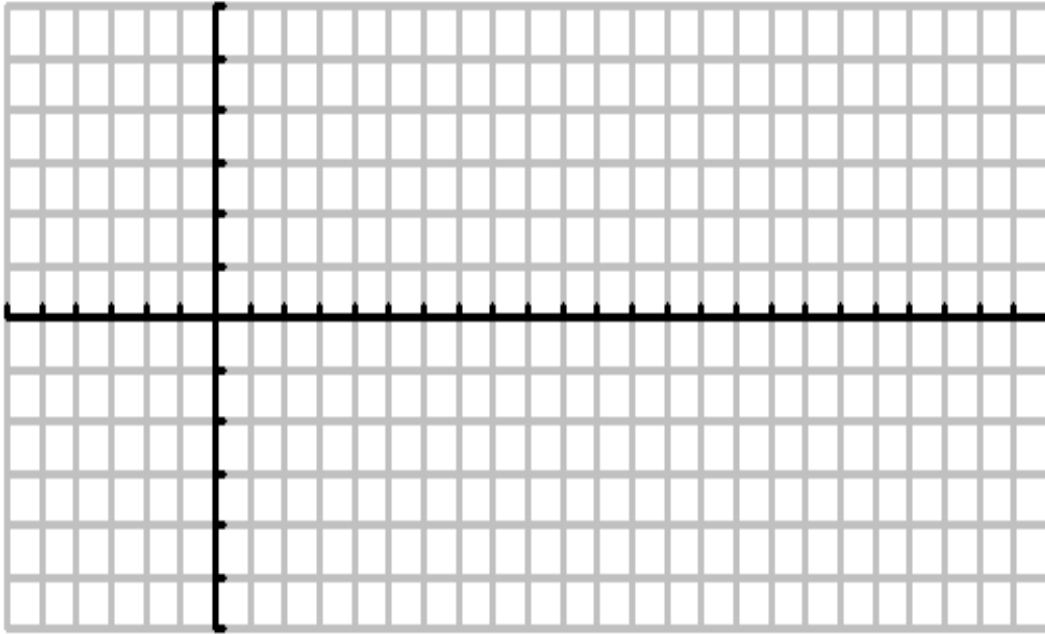
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

15.  $y = 2 + 3 \cos(2\theta + \frac{2\pi}{3})$



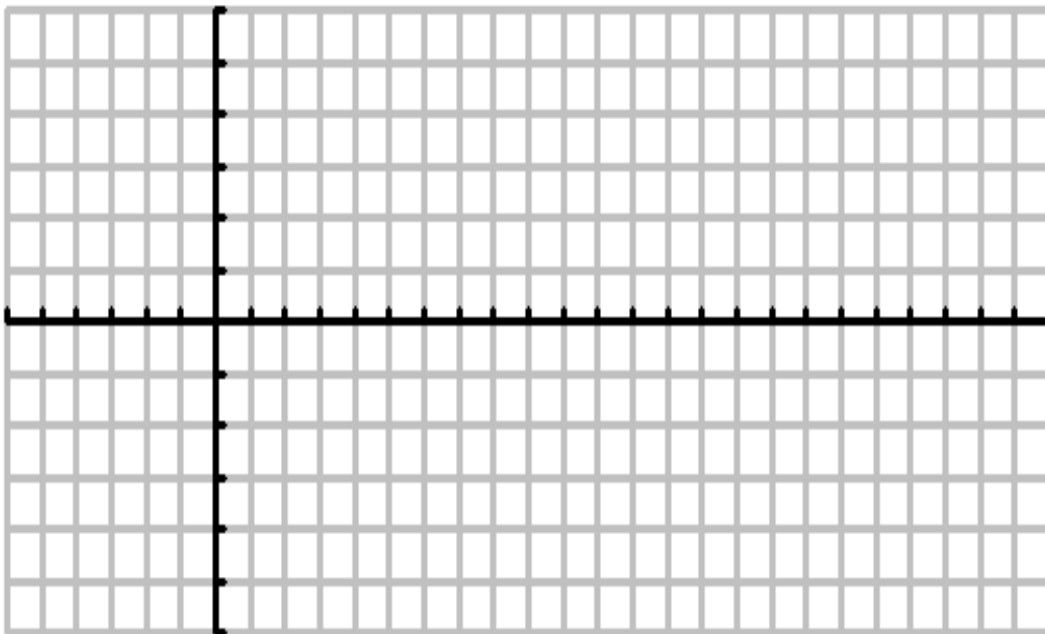
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

16.  $y = 2 \cos(\frac{\theta}{2} - \frac{3\pi}{4})$



Period = \_\_\_\_\_

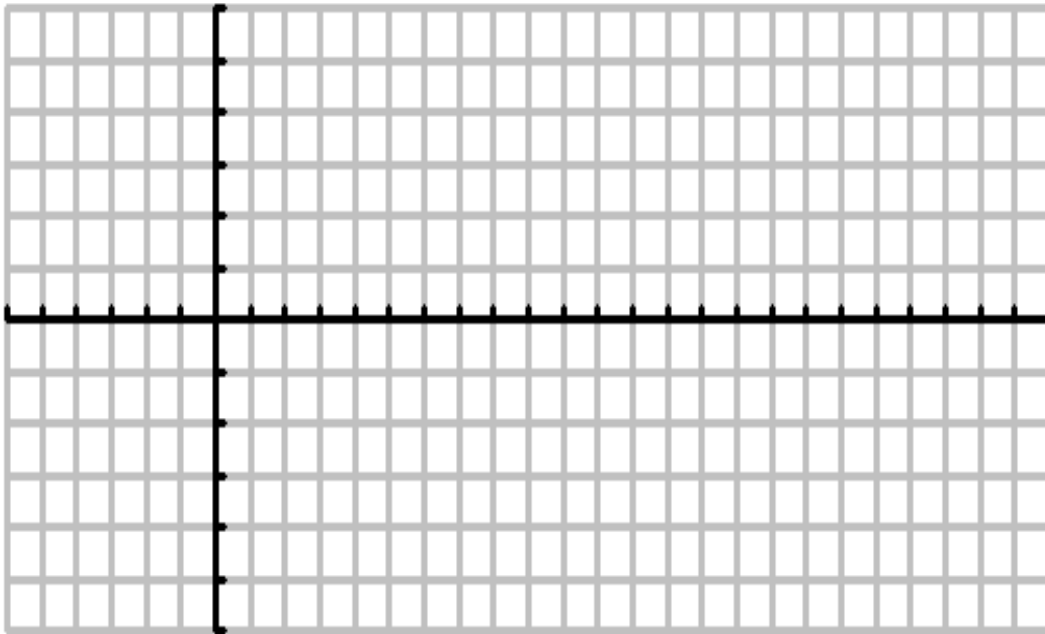
Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_



17.  $y = 3 \cos\left(2\theta - \frac{\pi}{6}\right) - 2$



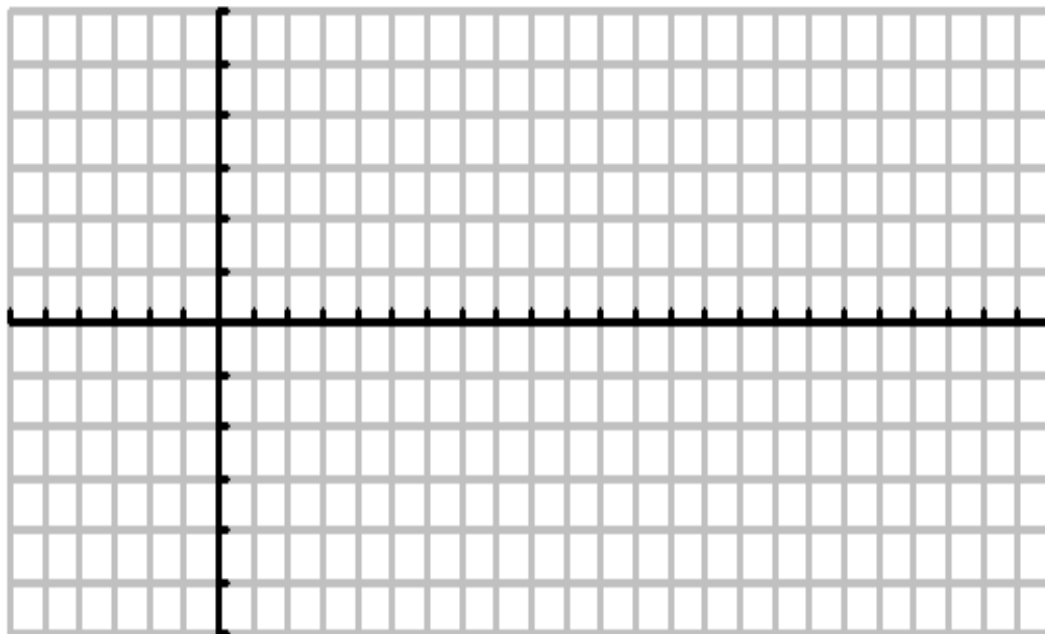
Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

18.  $y = \frac{1}{2} \sin\left(\frac{\theta}{3} + \frac{\pi}{2}\right) - 1$



Period = \_\_\_\_\_

Amplitude = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_