

Pre-Cal CW 4.5-4.6 Graphing Sinusoidals and Reciprocal Functions

For #'s 1-4, Graph each sinusoidal function. State the Range and the Period. Be sure to label the axis.

1. $y = -2 \cos 5\theta$, where θ is in degrees Range: _____ Period: _____

2. $y = 3 + 2 \sin\left(\frac{\theta}{2} - 20^\circ\right)$ Range: _____ Period: _____

3. $y = 3 \cos \pi\theta - 1$ Range: _____ Period: _____

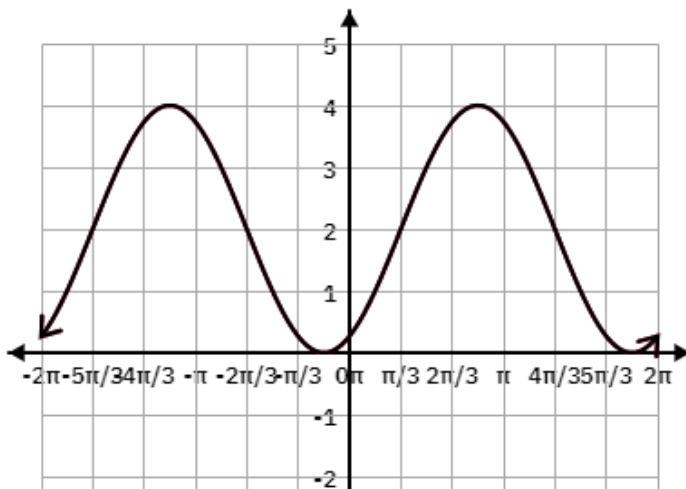
4. $y = 1 + \sin\left(\theta + \frac{\pi}{5}\right)$ Range: _____ Period: _____

For #'s 5-6, Graph each reciprocal function. Be sure to label the axis.

5. $y = 2 \csc 3\pi\theta - 3$

6. $y = 3 \sec(2\theta + 30^\circ)$

7. Given the graph, write a sine and a cosine equation.



Sine Function: _____

Cosine Function: _____