

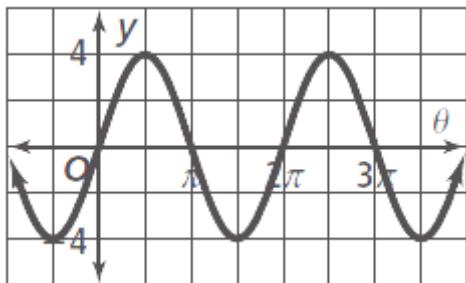
Name: \_\_\_\_\_ Per: \_\_\_\_\_

**Assignment:**

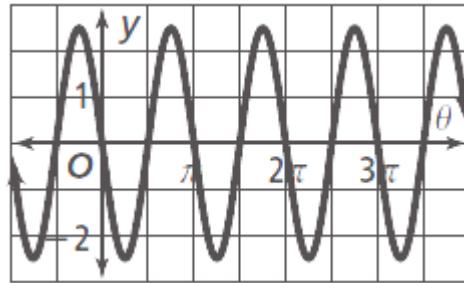
**The Graphs of Sine and Cosine**

Find the amplitude and period of each sine curve. Then write an equation for each curve.

1.

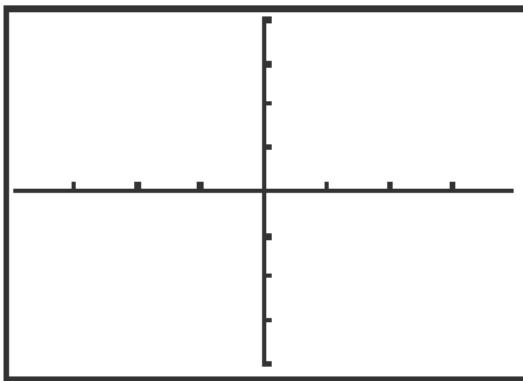


2.

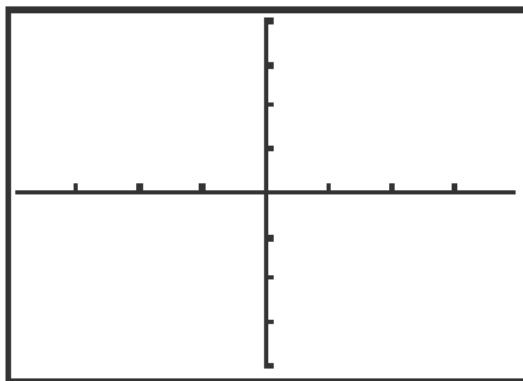


Sketch one cycle of each sine curve. Assume  $a > 0$ . Write an equation for each graph.

3. amplitude = 2; period =  $\pi$

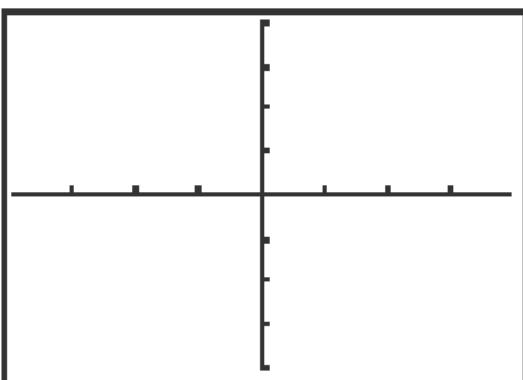


4. amplitude = 3; period =  $2\pi$

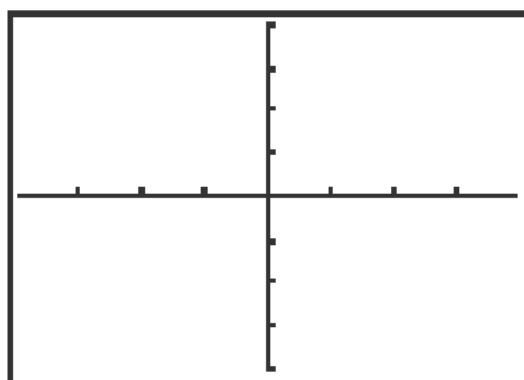


Sketch one cycle of the graph of each sine function.

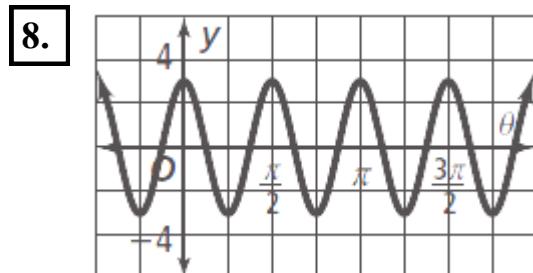
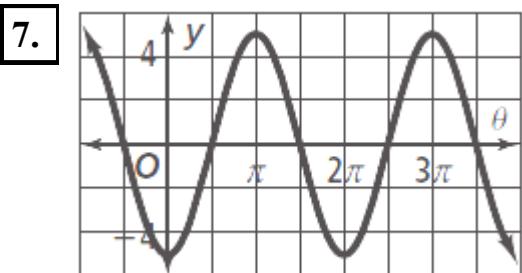
5.  $y = -2 \sin 4\theta$



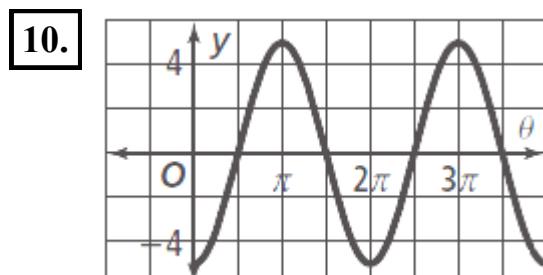
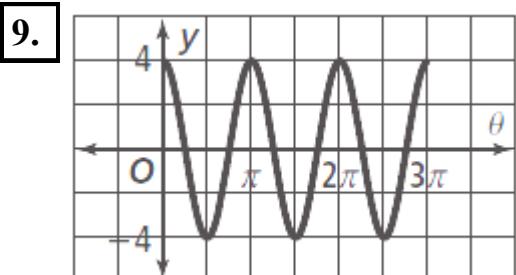
6.  $y = 3 \sin \frac{\theta}{2}$



Write an equation of a cosine function for each graph.

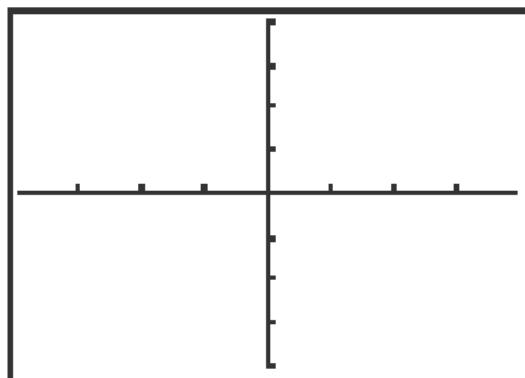


Find the period and amplitude of each cosine function.

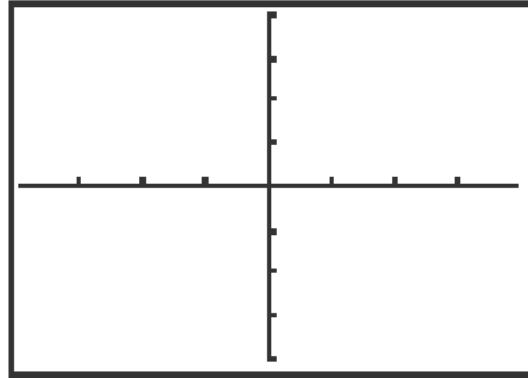


Sketch the graph of each function in the interval from 0 to  $2\pi$ .

11.  $y = -2 \cos 2\theta$



12.  $y = 3 \cos 4\theta$



13.  $y = \cos \frac{\theta}{2}$

