

## Graphs of the Sine and Cosine Functions

1. Determine the amplitude and period of each function without graphing.

(Similar to p.150 #11-20)

$$y = 5 \cos x$$

2. Determine the amplitude and period of each function without graphing.

(Similar to p.150 #11-20)

$$y = -\sin(7x)$$

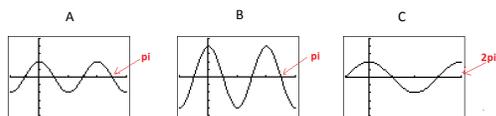
3. Determine the amplitude and period of each function without graphing.

(Similar to p.150 #11-20)

$$y = \frac{2}{3} \cos\left(-\frac{\pi}{4}x\right)$$

4. Match the given function to one of the graphs (A)-(C).

(Similar to p.150 #21-34)



$$y = 4 \cos(2x)$$

5. Graph each function. Be sure to label key points and show at least two cycles. Use the graph to determine the domain and the range of each function.

(Similar to p.151 #35-58)

$$y = 5 \sin x$$

6. Graph each function. Be sure to label key points and show at least two cycles. Use the graph to determine the domain and the range of each function.

(Similar to p.151 #35-58)

$$y = -2 \cos\left(\frac{1}{8}x\right)$$

7. Graph each function. Be sure to label key points and show at least two cycles. Use the graph to determine the domain and the range of each function.

(Similar to p.151 #35-58)

$$y = 4 \sin(\pi x) - 1$$

8. Graph each function. Be sure to label key points and show at least two cycles. Use the graph to determine the domain and the range of each function.

(Similar to p.151 #35-58)

$$y = \frac{3}{2} \cos\left(\frac{-\pi}{2}x\right) + \frac{5}{2}$$