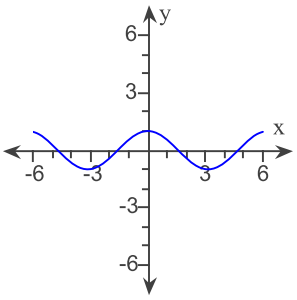
Student: _____	**Instructor:** Fred Khoury	**Assignment:** Quiz Sec 2.5
Date: _____	**Course:** Math 2312-1000 Precalculus (Fall - 2015)	
Time: _____	**Book:** Lial: College Algebra and Trigonometry, 4e	

1. Using the graph shown to the right, determine the function the graph depicts.



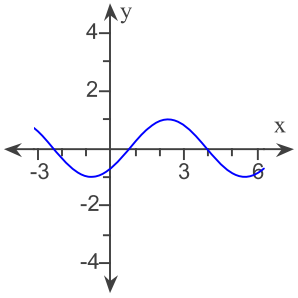
A. $y = \sin\left(x - \frac{\pi}{2}\right)$

B. $y = \cos\left(x + \frac{\pi}{2}\right)$

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

D. $y = \sin\left(x + \frac{\pi}{2}\right)$

2. Determine the equation of the graph.



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

B. $y = \sin\left(x - \frac{\pi}{4}\right)$

C. $y = \cos(x) - \frac{\pi}{4}$

D. $y = \sin(x) - \frac{\pi}{4}$

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3. Determine the amplitude of the given function.

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

A. -8

B. 2

C. 4

D. $\frac{\pi}{2}$

4. Determine the amplitude of the given function.

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

A. 2

B. 3

C. $\frac{\pi}{2}$

D. -6

5. Determine the period of the given function.

$$y = 4\sin\left(6x + \frac{\pi}{2}\right)$$

A. π

B. $\frac{\pi}{3}$

C. 6

D. 4

6. Find the vertical translation of the given function.

$y = 3 + 3\ \mathbf{sin}\left(4x + \frac{\pi}{6}\right)$

A. 6

B. 3

C. $\frac{1}{6}$

D. $\frac{\pi}{6}$

7. Find the phase shift of the function.

$y = \mathbf{sin}\left(x + \frac{\pi}{2}\right)$

A. $\frac{\pi}{2}$ units to the left

B. $\frac{\pi}{2}$ units up

C. $\frac{\pi}{2}$ units down

D. $\frac{\pi}{2}$ units to the right

8. Find the phase shift of the function.

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

A. $\frac{\pi}{4}$ units to the right

B. $\frac{\pi}{4}$ units to the left

C. $\frac{\pi}{4}$ units up

D. $\frac{\pi}{4}$ units down

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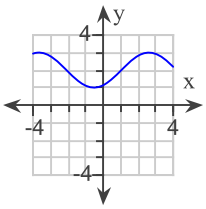
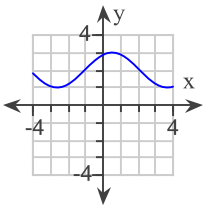
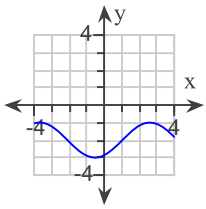
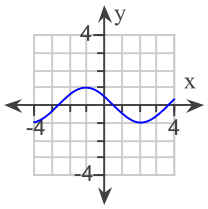
9. Graph the function.

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

A. 

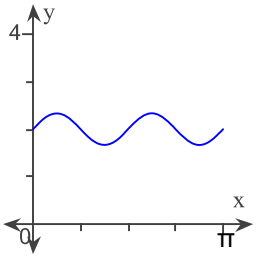
B. 

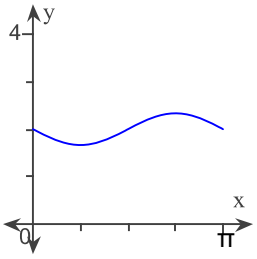
C. 

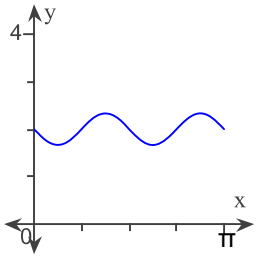
D. 

10. Graph the function over a one-period interval.

$$y = 2 + \frac{1}{3}\sin(2x - \pi)$$

A. 

B. 

C. 

D.