

Quiz 2.1- 2.3 Review

1. Name the effects of changing the value of A, B, C, and D on the graph of $y = C + A \sin B(x - D)$
2. Fill in the table for the following trig functions:

	Period	Amplitude	Phase Shift	Vertical Shift	Range
$f(x) = -\cos \frac{1}{8}(x - \pi) + 2$					
$f(x) = 2 - 3 \sin \frac{\pi}{4}x$					

3. Graph one cycle of the following equations in radians.

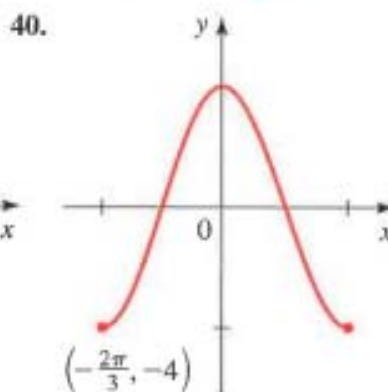
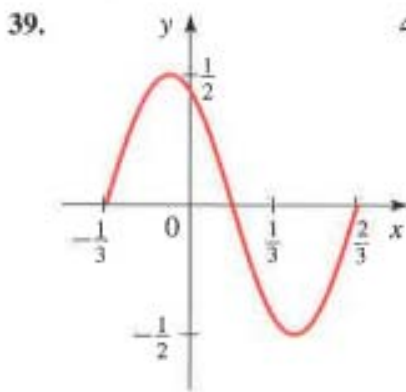
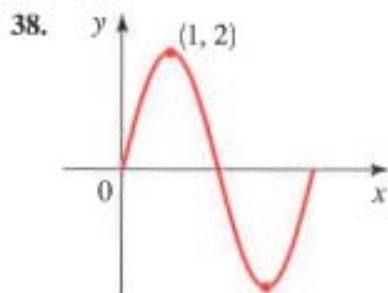
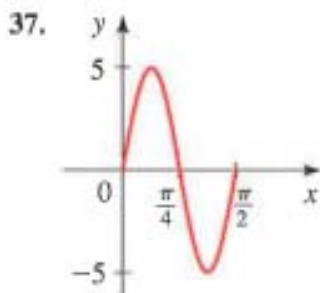
a. $y = 8 \sin \frac{1}{2}x$

b. $y = -2 \cos 4\theta$

c. $y = 5 + 10 \sin \left(2x - \frac{\pi}{2} \right)$

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

4. How are the graphs of sine and cosine related?
5. Write the equations of #37 and #38 as sine functions and #39 and #40 as cosine functions.



Be able to graph sine and cosine graphs with amplitude & period changes and vertical & phase shifts. Make sure you read directions (i.e. whether to write the equation as a sine or cosine function).

Good Luck!