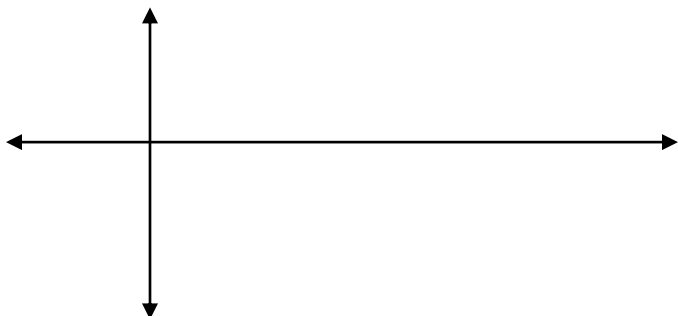


**Pre-Calculus AB  
Review – Chapter 7**

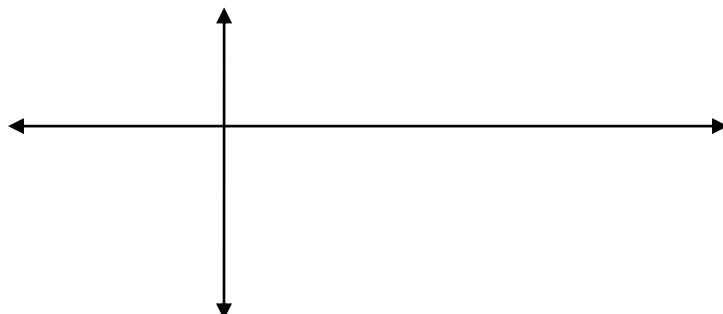
Name \_\_\_\_\_ Period \_\_\_\_\_

**Graph One Fundamental Period of these trigonometric functions. Label the axes**

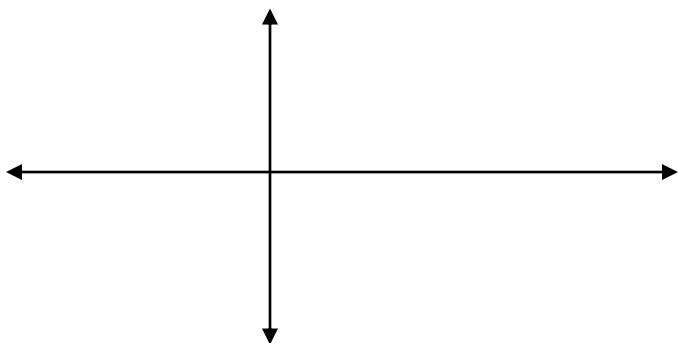
1)  $y = -\sin \pi(x-2) - 2$



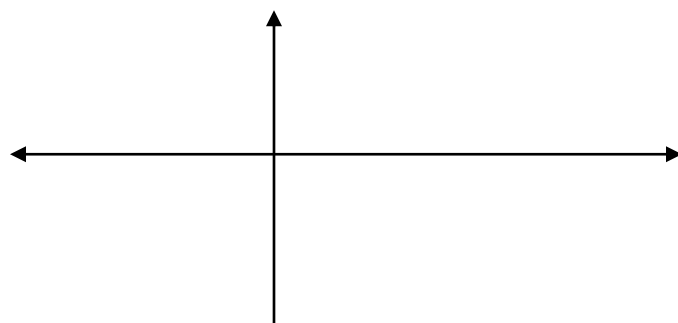
2)  $y = \cos \frac{\pi}{2}(x+1) + 3$



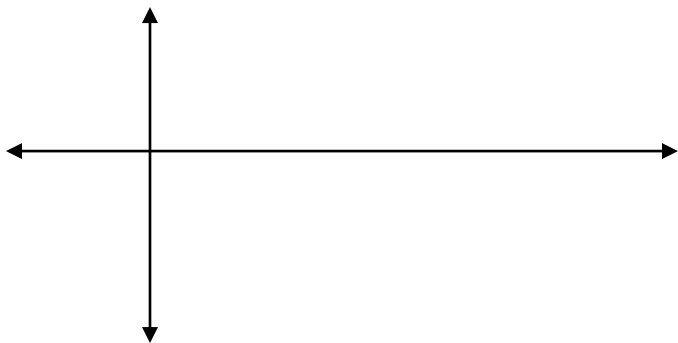
3)  $y = 2 \csc 2(x+\pi) + 1$



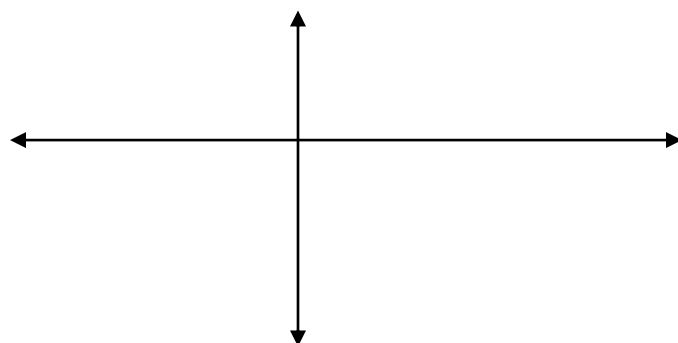
4)  $y = 3 \cot \frac{1}{2}(x + \frac{\pi}{2}) - 2$



5)  $y = 2 \tan(x - \frac{\pi}{2}) + 1$



6)  $y = -\sec 2(x + \frac{\pi}{2}) + 1$



**Describe the transformations to the basic trigonometric graphs. Write one description per line.**

7)  $f(t) = 3 \cos 2t + 2$

a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_ d) \_\_\_\_\_

8)  $f(t) = \frac{1}{2} \sin \frac{1}{3}(t + \pi)$

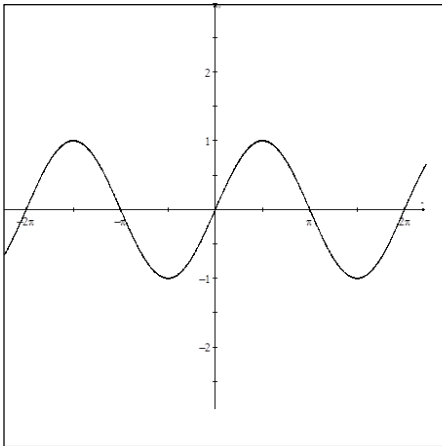
a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_

**Write the equation for the periodic function with the following information:**

9)  $y = \cos x$  \_\_\_\_\_ a: 3    period:  $\frac{\pi}{4}$     phase shift: right  $\frac{\pi}{4}$     vertical shift: up 1

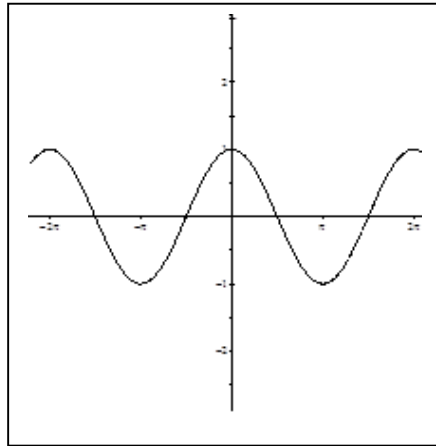
10)  $y = \tan x$  \_\_\_\_\_ a: -2 period:  $\frac{1}{4}$  phase shift: left 2 vertical shift: down 3

**Find 2 equations for each graph. Use SINE for the 1st equation and COSINE for the 2nd equation.**



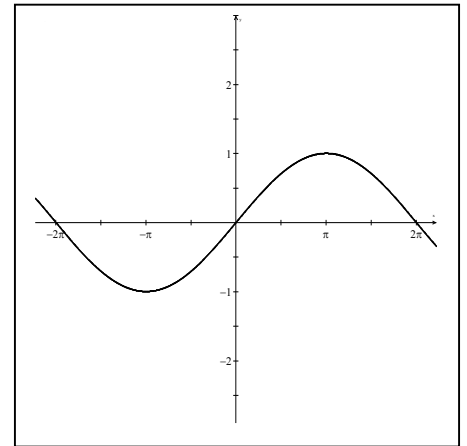
11)  $y =$

$y =$



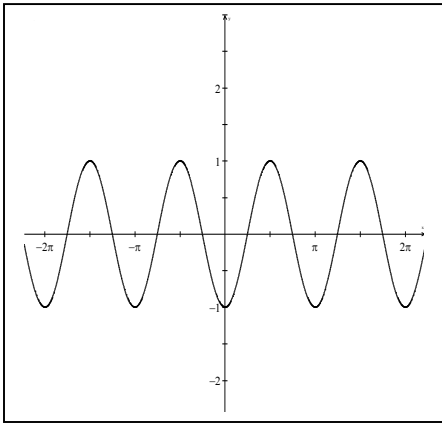
12)  $y =$

$y =$



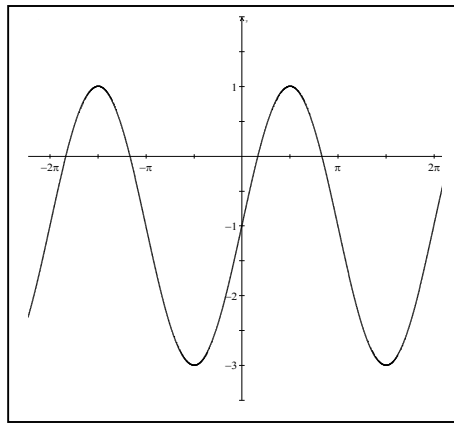
13)  $y =$

$y =$



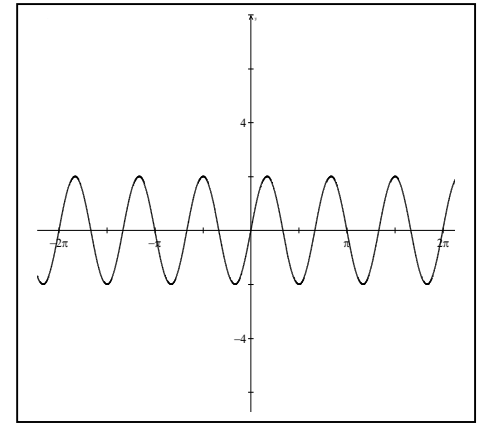
14)  $y =$

$y =$



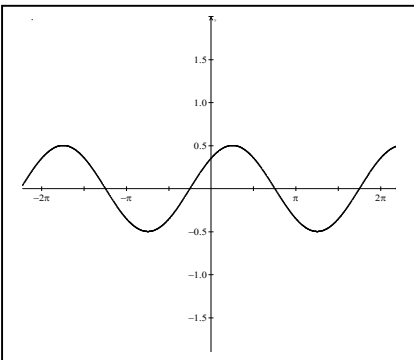
15)  $y =$

$y =$



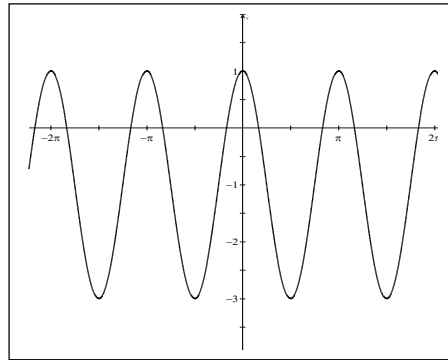
16)  $y =$

$y =$



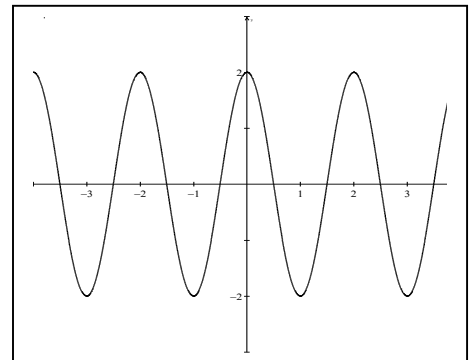
17)  $y =$

$y =$



18)  $y =$

$y =$



19)  $y =$

$y =$