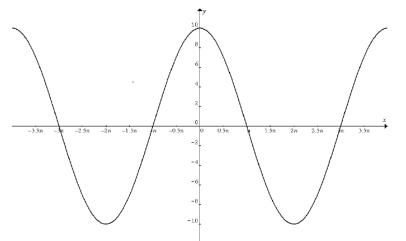
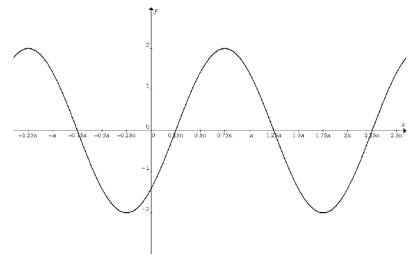
## Math 3 – Trig Graphs Worksheet



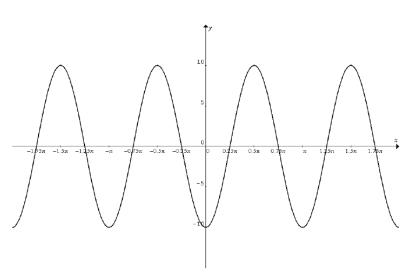
Phase Shift = \_\_\_\_\_ Amplitude = \_\_\_\_\_ Period = \_\_\_\_\_

Equation (1) = \_\_\_\_\_ (in terms of the **cosine** function)



Amplitude = \_\_\_\_\_ Period = \_\_\_\_\_ Phase Shift = \_\_\_\_\_

Equation (2) =  $\underline{\hspace{1cm}}$  (in terms of the **sine** function)



Amplitude = \_\_\_\_\_ Period = \_\_\_\_ Phase Shift = \_\_\_\_ Amplitude = \_\_\_\_

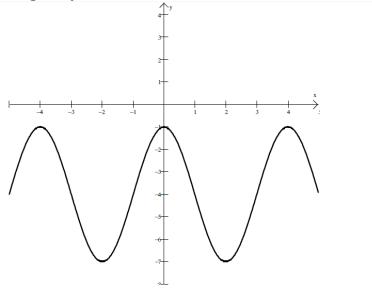
Equation (3) =\_\_\_\_\_\_ (in terms of the **sine** function)

Period = \_\_\_\_\_

Phase Shift = \_\_\_\_\_

Equation (4) = \_\_\_\_\_ (in terms of the **cosine** function)

Math 3 – Trig Graphs Worksheet



Amplitude = \_\_\_\_\_

Equation (5) = \_\_\_\_\_ (in terms of the **cosine** function)

Amplitude = \_\_\_\_\_ Phase Shift =

Equation (6) = \_\_\_\_\_ (in terms of the **sine** function)

Identify Amplitude, Period and Phase Shift for each of the following equations.

7. 
$$y = 3 \cos x + 2$$

**8.** 
$$y = 2 \cos(x - 1) + 3$$

**7.** 
$$y = 3\cos x + 2$$
 **8.**  $y = 2\cos(x-1) + 3$  **9.**  $y = \sin\left(x + \frac{3\pi}{2}\right) - 1$ 

**10.** 
$$y = 3\sin\left(x - \frac{\pi}{4}\right) + 2$$
 **11.**  $y = \cos\left(x + \frac{\pi}{2}\right) - 1$  **12.**  $y = \sin(x - \pi) + 2$ 

**11.** 
$$y = \cos\left(x + \frac{\pi}{2}\right) - 1$$

**12.** 
$$y = \sin(x - \pi) + 2$$

**13.** 
$$y = \cos \frac{1}{2}x + 1$$

**14.** 
$$y = \sin 2\left(x - \frac{\pi}{3}\right)$$

**13.** 
$$y = \cos \frac{1}{2}x + 1$$
 **14.**  $y = \sin 2\left(x - \frac{\pi}{3}\right)$  **15.**  $y = -\cos 2\left(x + \frac{\pi}{4}\right)$