## **Classwork 20** Intermediate Algebra MTH 35 **Topic: Graphing Trigonometric functions**

Name:

Find the amplitude, period, frequency and phase shift for the following functions. Plot them on the given grid by carefully choosing the scale on both the axes.

1.  $y = \cos 2(x + \pi/2)$ 



Amplitude=

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

Frequency = \_\_\_\_\_

Phase shift = \_\_\_\_\_

**2.**  $y = \sin 3(x + \pi/6)$ 

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

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

Frequency = \_\_\_\_\_

Phase shift = \_\_\_\_\_

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





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



Phase shift = \_\_\_\_\_

4.  $y = -4\cos 2(x + \pi/4)$ 



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

Frequency = \_\_\_\_\_

Phase shift = \_\_\_\_\_