

**Adv. Math B REVIEW**  
**Chapter 6, Packets 1 and 2**

Name \_\_\_\_\_

State the amplitude, period, phase shift and vertical shift of the following:

1.  $y = \frac{8}{3} \cos\left(\frac{6x}{5}\right) + 2$

A \_\_\_\_\_ P \_\_\_\_\_ P.S. \_\_\_\_\_ V.S. \_\_\_\_\_

2.  $y = -2.3 \sin(3x + \pi)$

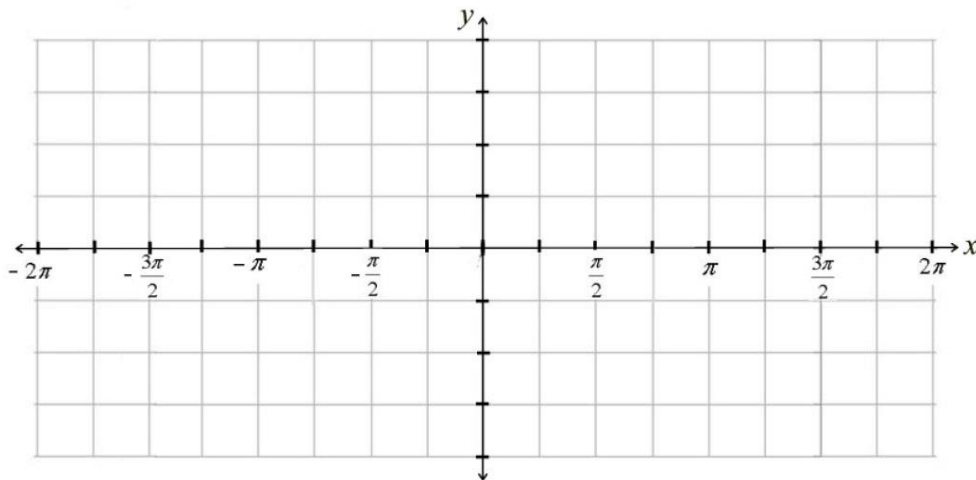
A \_\_\_\_\_ P \_\_\_\_\_ P.S. \_\_\_\_\_ V.S. \_\_\_\_\_

3.  $y = \tan\left(2x + \frac{\pi}{4}\right)$

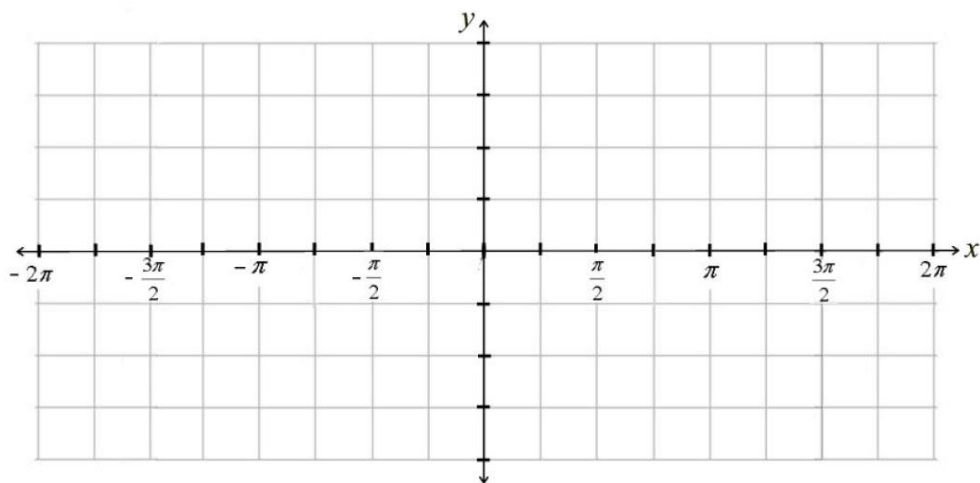
A \_\_\_\_\_ P \_\_\_\_\_ P.S. \_\_\_\_\_ V.S. \_\_\_\_\_

Graph each equation.

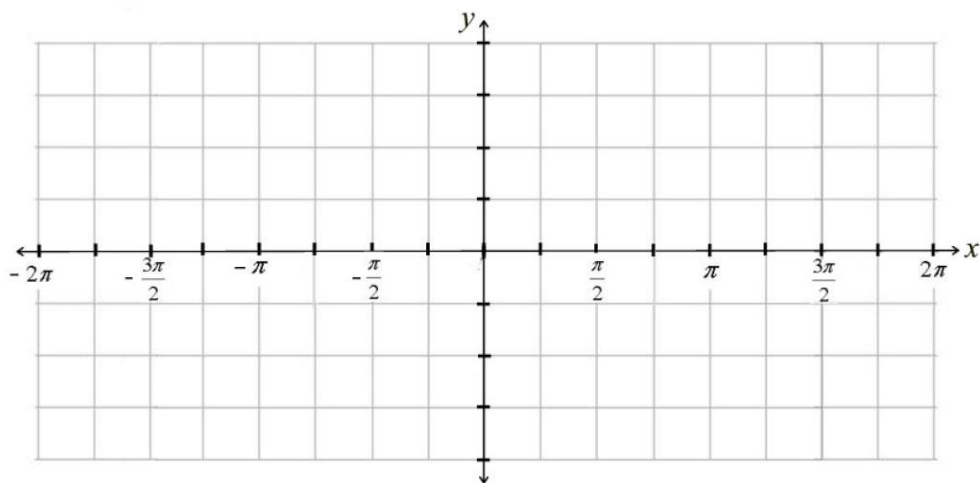
4.  $y = -3 \cos(x + \pi)$



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



6.  $y = -3\cos\left(\frac{x}{2} - 2\pi\right) + 1$



7. Write an equation for a sine function with amplitude 2.4, period 8.2, phase shift  $\frac{\pi}{3}$  and vertical shift 0.2.