7.1-7.6 Review: Name: _____ Date: _____

1. **Determine the quadrant of the following angles.**

   a. $\frac{9\pi}{6}$ **b.** $-245°$ **c.** **5** **d.** $\frac{-16\pi}{17}$

2. **Write each of the following angles in Radians.**

   a. $0°$ **b.** $45°$ **c.** $300°$ **d.** $480°$

3. **Write each of the following angles in Degrees.**

   a. 2π **b.** $\frac{2\pi}{3}$ **c.** $\frac{5\pi}{6}$ **d.** $\frac{9\pi}{4}$

4. **Find the <u>exact</u> value of all 6 trig. functions at** $\Theta = \frac{5\pi}{6}$.

   Sin Θ = _____ **Csc Θ =** _____

   Cos Θ = _____ **Sec Θ =** _____

   Tan Θ = _____ **Cot Θ =** _____

5. **Find the <u>exact</u> value of all 6 trig. functions if tan Θ =** $\frac{3}{4}$ **in Quadrant III.**

   Sin Θ = _____ **Csc Θ =** _____

   Cos Θ = _____ **Sec Θ =** _____

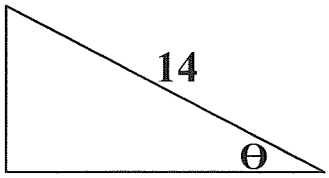
   Tan Θ = _____ **Cot Θ =** _____

6. **Find the <u>exact</u> value of all 6 trig. functions of Θ.**

   Sin Θ = _____ **Csc Θ =** _____

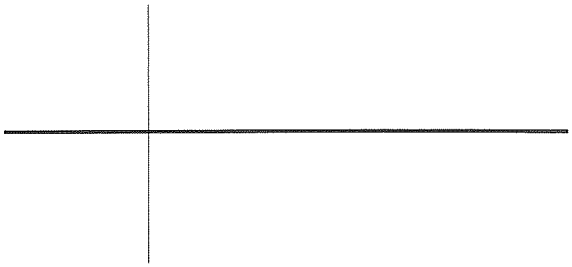
   Cos Θ = _____ **Sec Θ =** _____

   Tan Θ = _____ **Cot Θ =** _____

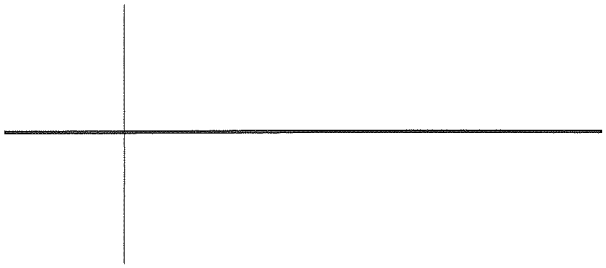


7. **Sketch the following Graphs including correctly labeling the axes.**

a. $y = \sin x$



b. $y = \cos x$



8. **Give the amplitude, the period, and the direction and distance of any shifts or reflections that the graph of sin(x) would undergo to the following graphs.**

a. $y = 2\sin(4x) + 1$

b. $y = -5\sin(\pi x - \frac{\pi}{2}) - 3$

9. **Match each equation with its graph. All graphs have the same axes.**

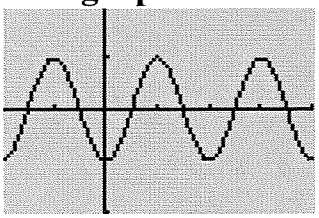
a. $2\sin(\pi x)$ _____

b. $-\cos(2x)$ _____

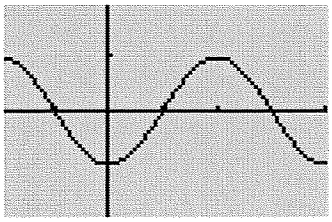
c. $0.5\cos(x) + 1$ _____

d. $\sin(x - \frac{\pi}{2})$ _____

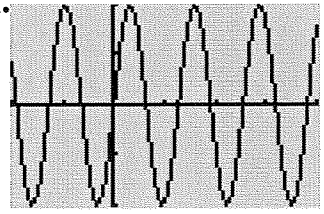
I.



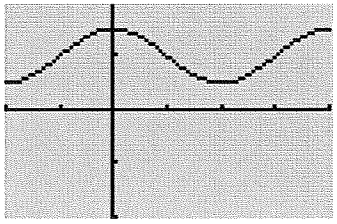
II.



III.

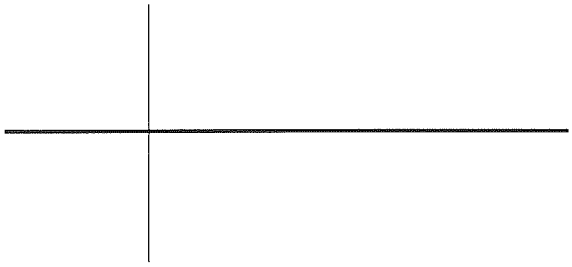


II.

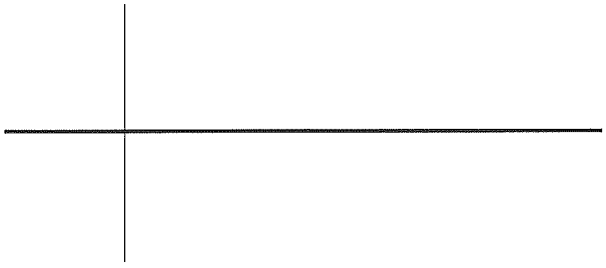


10. **Sketch the following Graphs including correctly labeling the axes.**

a. $y = 3\sin(2x)$



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



12. **Use the given values to find the following.**

$y = \sin(t) = \frac{6}{10}$ $y = \tan(t) = \frac{15}{20}$

a. $\cos(90° - t) =$

b. $\cot(t) =$

c. $\sin(-t) =$

d. $\cos(t) =$