Ch.5 Honors Trig/Pre-calculus   NAME: PER:
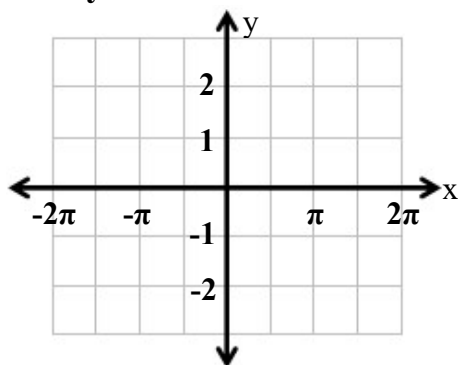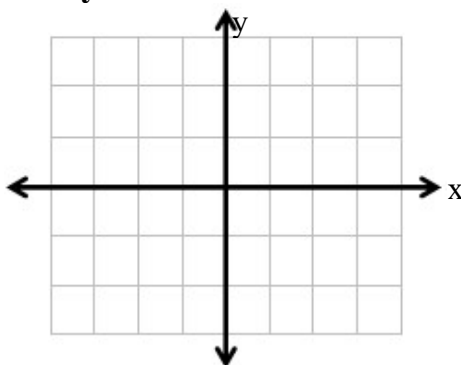**Warm up 1-17 AND**
5.5#4, 6, 8-10, 43-48 (ok to put on back of this sheet)

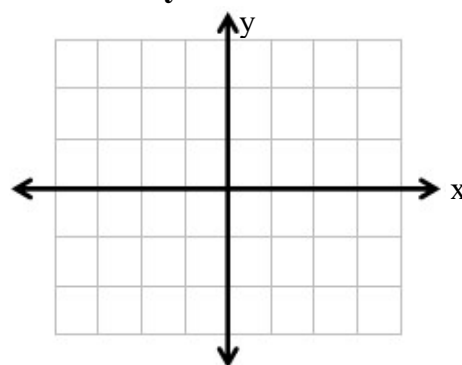SKETCH A GRAPH FOR THE SIX TRIG FUNCTIONS BY PLOTTING KEY VALUES FOR $-2\pi \le x \le 2\pi$
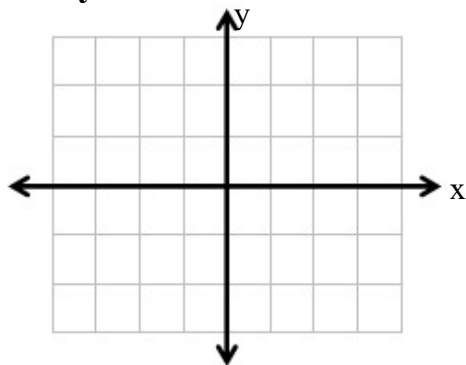
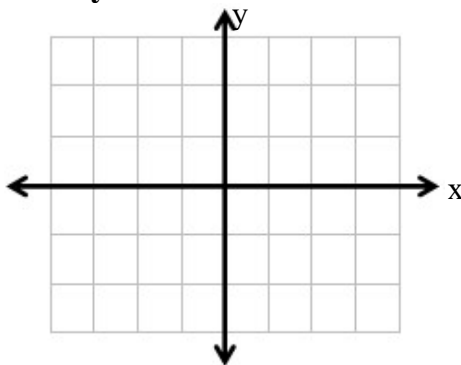**1. $y = \sin x$**

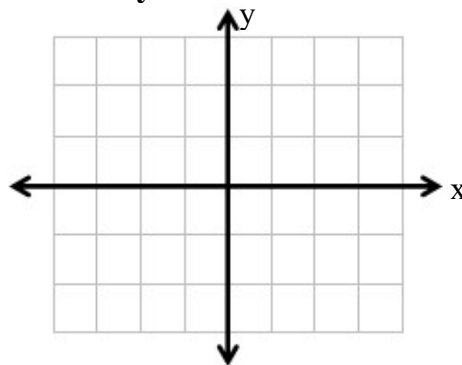**3. $y = \cos x$**

5. $y = \tan x$

2. $y = \csc x$

4. $y = \sec x$

6. $y = \cot x$

#7-16: **Given that $-2\pi \le x \le 2\pi$,** use the above graphs to find the values of x that make each statement true.
(You will have multiple solutions for each problem.)

7. $\sin x = 0$

8. $\sin^{-1}(1)$

9. $\cos x = 0$

10. $\arccos(1)$

11. $\tan x = -1$

12. $\arctan(0)$

13. $\sec x = $ undefined

14. $\tan^{-1}(1)$

15. $\csc x = -1$

16. $\cot x = 0$

17. Explain why it is not practical to solve the following problem using a graph: $\sin x = \frac{1}{2}$
        Note: $-2\pi \le x \le 2\pi$