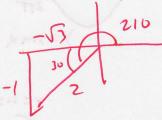
## Trig. Quiz 10.9.09

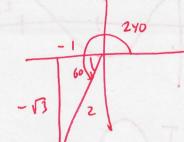
Key.

For questions 1-5, give the exact value, also draw the angle in standard position, and show the reference angle and reference triangle, as well as the x, y, and r values.

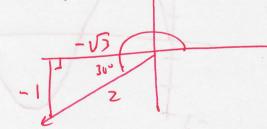
$$1. \sec(210) = \frac{\Upsilon}{X}$$



$$2. \cot 240 = \frac{x}{y}$$



$$3.\tan\left(\frac{7\pi}{6}\right) = \frac{Y}{X}$$



$$4. \sin\left(\frac{23\pi}{3}\right) = 1380^{\circ}$$

$$= \frac{1}{r}$$

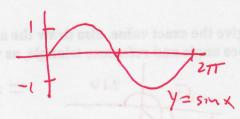


$$=\frac{-\sqrt{3}}{2}$$

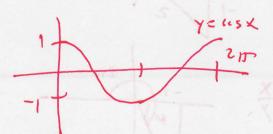
$$(5.\cos (1140) = \frac{3}{7})$$

## For Questions 6-10. Draw the requested graph. Give the scale on the x and y axis.

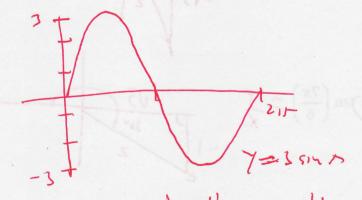
6.  $y = \sin(x)$   $0 \le x \le 2\pi$ 



 $7. y \neq \cos(x) \quad 0 \le x \le 2\pi$ 



(8.)y=3sin(x)  $0 \le x \le 2\pi$ 



 $9. y = \tan(x) - \frac{3\pi}{2} \le x \le \frac{3\pi}{2}$ 

(x+C) + D. Tell as much as you can about what each feature of the

10. For y=A sin (B(x+C)) + D Tell as much as you can about what each feature of the graph each letter affects. Include a formula if you know one.

A = Amplitude, Amp=[A]

B > parild peril

C > phone shift

D > vertical shift