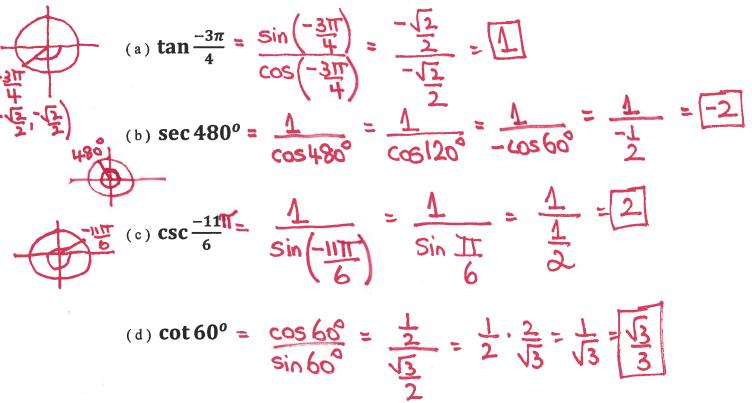
CLASS TIME:

Quiz #8

Please show all of your work for maximum credit. Good luck!!!

1. Find exact values without using your calculator. Show your work.



(d)
$$\cot 60^\circ = \frac{\cos 60}{\sin 60^\circ} = \frac{2}{\sqrt{3}} = \frac{2}{\sqrt{3}} = \frac{1}{\sqrt{3}} = \frac{1}{\sqrt{3}}$$

2. (2 points) If $\cos \alpha = \frac{-\sqrt{3}}{5}$, and α is in second quadrant, find exact sind = values for the other five trig functions. $\cos^2 x + \sin^2 x = 1$ (-43) + sin 2 = 1 tand = sind = . 3 + sin 2 = 1 Or Sind= 22

3. Without a calculator, evaluate the following exactly.

(a)
$$\cos^{-1}\left(\frac{-1}{2}\right)$$
 0 < $\cos^{-1}\left(\frac{1}{2}\right)$

(b)
$$\sin^{-1}\left(\frac{-\sqrt{2}}{2}\right)$$
 $-\frac{1}{1}$ $\leq \sin^{-1}\left(\frac{1}{2}\right)$

Solve
$$\cos\left(\cos^{-1}\left(\frac{1}{2}\right)\right) = 1$$

(d)
$$\cos^{-1}\left(\cos\left(\frac{5\pi}{3}\right)\right)$$

Sel' $\cos^{-1}\left(\frac{1}{2}\right) = \boxed{11}$

4. Solve the equation exactly for $0 \le t \le 2\pi$.

(a)
$$\tan t = \sqrt{3}$$

