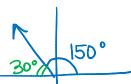
13.3-13.4 Practice Quiz #2

1) Sketch the angle $-\frac{17\pi}{6}$. Then find its reference $-\frac{17\pi}{6} + \frac{12\pi}{6} = -\frac{5\pi}{6}$ angle.



$$\frac{6\pi}{6} - \frac{5\pi}{6} = \frac{\pi}{6}$$

Evaluate the function $\tan 150^\circ$ without using a calculator.



$$30^{\circ} = \left(\frac{3}{2}, \frac{1}{2}\right)$$

$$2^{\text{nd}} \text{ Quad} \Rightarrow -X_{3} + Y$$

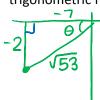
$$\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$$

tan =
$$\frac{\sin \theta}{\cos \theta} = \frac{1}{2} \cdot \frac{2}{\sqrt{3}} = \frac{1}{\sqrt{3}} \cdot \frac{3}{\sqrt{3}} = \frac{-1}{3}$$

no radicals in hor radicals in denom.
 $\theta = \tan^{-1}(1.6) = 57.99^{\circ}$

Name: Key

2) Use the point (-7, -2) on the terminal side of an angle θ in standard position to evaluate the six trigonometric functions of θ .



$$Sin\theta = -2\sqrt{53}$$
 $CSC\theta = \frac{\sqrt{53}}{53}$ $CSC\theta = \frac{\sqrt{53}}{-2}$ $COS\theta = -\frac{7}{63}$ $Sec\theta = \frac{7}{7}$

- tane = $\frac{2}{7}$ cote = $\frac{7}{2}$ 4) Evaluate the expression $\tan^{-1} \left(\frac{\sqrt{3}}{3} \right)$ without using
 - a calculator. Give your answer in radians and degrees. $30^{\circ} = \left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$

$$tan30^{\circ} = \frac{1}{2} = \frac{1}{2} \cdot \frac{2}{3} = \frac{1}{3} \cdot \frac{3}{3} = \frac{3}{3}$$



13.3-13.4 Practice Quiz #3

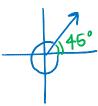
check1 tan 237.99=1.6/

Name:

1. Sketch the angle 325° . Then find its reference



- angle. 360-325 = 35°
- 3. Evaluate the function $\sec(-315^\circ)$ without using a calculator. $45^\circ = (\sqrt{2}/2, \sqrt{2}/2)$



Sec =
$$\frac{1}{\cos} = \frac{1}{\sqrt{2}} = 1 \cdot \frac{2}{\sqrt{2}} = \frac{2}{\sqrt{2}}$$

 $\frac{2}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{2\sqrt{2}}{2} = \frac{2}{\sqrt{2}}$

5. Solve the equation for θ : $\cos \theta = 0.22; 270^{\circ} < \theta < 360^{\circ}$ $\theta = 0.22; 270^{\circ} < \theta < 360^{\circ}$ $\theta = 0.22; 270^{\circ} < \theta < 360^{\circ}$

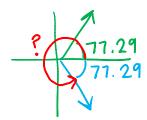
2. Use the point (-10, 24) on the terminal side of an angle θ in standard position to evaluate the six trigonometric functions of θ .



$$Sin\theta = \frac{12}{13}$$
 $CSC\theta = \frac{13}{12}$ $COS\theta = -\frac{5}{13}$ $Sec = -\frac{13}{5}$ $tan = -\frac{12}{5}$ $cot = -\frac{5}{12}$

4. Evaluate the expression $\sin^{-1} 0$ without using a calculator. Give your answer in radians and degrees. what angle has a y-value of 0?

or Oradians



$$360-77.29=282.71^{\circ}$$

check | cos282.71 = .22 $\sqrt{}$