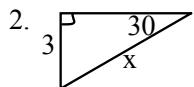
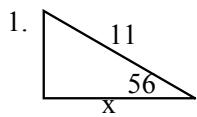
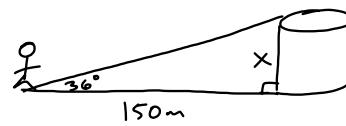


Find the value of x on each.



SOHCAHTOA



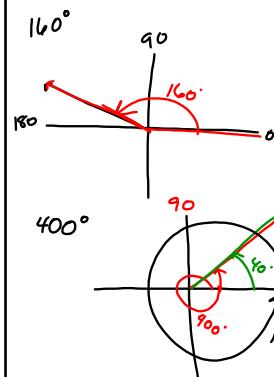
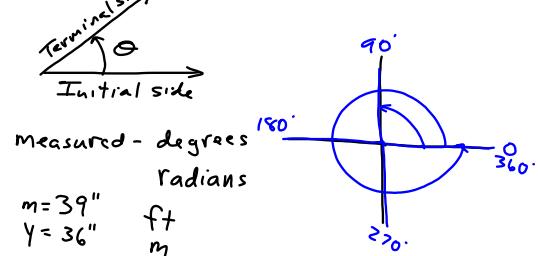
$$150 \quad \tan 36^\circ = \frac{x}{150} \cdot 150 \\ x = 109 \text{ m}$$

Mar 21-8:06 AM

Mar 21-8:30 AM

13.2

Angle - made up of two rays.



Mar 21-8:38 AM

Mar 21-8:42 AM

$$\begin{array}{r} 400^\circ \\ -360^\circ \\ \hline 40^\circ \end{array}$$

$$0 - 360^\circ$$

$$\begin{array}{r} 65^\circ \\ +360^\circ \\ \hline 425^\circ \end{array}$$

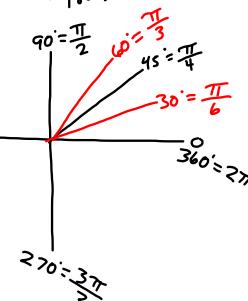
Degrees to Radians (multiply by $\frac{\pi}{180}$)

$$45^\circ \cdot \frac{\pi}{180} = \frac{\pi}{4}$$

$$90^\circ \left(\frac{\pi}{180} \right) = \frac{\pi}{2}$$

$$30^\circ \cdot \frac{\pi}{180} = \frac{\pi}{6}$$

$$60^\circ \cdot \frac{\pi}{180} = \frac{\pi}{3}$$

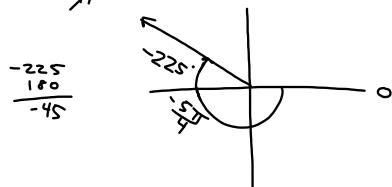


Mar 21-8:44 AM

Mar 21-8:46 AM

$$\text{Radians} \rightarrow \text{Degrees} \quad \frac{180}{\pi}$$

$$-\frac{5\pi}{4} \cdot \frac{180}{\pi} = -225^\circ$$



$$4. 140^\circ$$

$$7. \frac{11\pi}{3} \quad \frac{180}{\pi} \quad 60^\circ$$

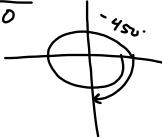
$$5. -860^\circ \quad \frac{\pi}{180} \quad -\frac{860}{180} = -\frac{43\pi}{9}$$

$$6. -\frac{3\pi}{8} \times \frac{180}{\pi} = -3 \cdot 36 = -108^\circ$$

Mar 21-8:52 AM

Mar 21-8:55 AM

$$\begin{array}{r} -450 \\ +360 \\ \hline -90 \end{array}$$



$$7-10 \quad D \rightarrow R$$

$$\frac{\pi}{180}$$

$$15-18 \quad R \rightarrow D$$

$$\frac{180}{\pi}$$

You are working for the City Power Department. A 100 foot cable is stretched from a stake in the ground to the top of a pole. The angle of elevation is 57 degrees.

1. Draw a figure to represent the situation.
2. Find the height of the pole to the nearest tenth.
3. Find the distance from the base of the pole to the stake to the nearest tenth.

Mar 21-9:07 AM

Mar 21-9:09 AM