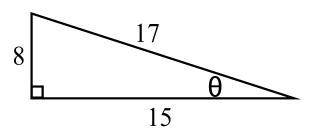


$$\sin \theta = \frac{opp}{hyp} = \frac{y}{r}$$

$$\cos \theta = \frac{adj}{hyp} = \frac{x}{r}$$

$$\tan \theta = \frac{opp}{adj} = \frac{y}{x}$$

$$\sec \theta = \frac{hyp}{adj} = \frac{r}{x} \csc \theta = \frac{hyp}{opp} = \frac{r}{y} \cot \theta = \frac{adj}{opp} = \frac{x}{y}$$



Find all six trig ratios for the given triangle:

$$Sin \theta = \frac{8}{7}$$

$$5^{2} + |0^{2} = c^{2}$$

$$|25 = c^{2}$$

$$c = \sqrt{|25|} = 5\sqrt{5}$$

$$5 = 25$$

$$10$$

Find all six trig ratios for the given triangle:

Sind =
$$\frac{5}{\sqrt{5}} = \frac{1}{\sqrt{5}}$$

Use = $\frac{5\sqrt{5}}{5} = \sqrt{5}$

Use = $\frac{5\sqrt{5}}{5} = \sqrt{5}$

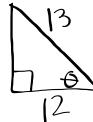
Use = $\frac{5\sqrt{5}}{5} = \frac{5\sqrt{5}}{2}$

$$(36 - \frac{515}{5} - 15)$$

$$coto = \frac{2}{1} = 2$$

Given the following trig function, find the remaining 5 functions:

$$\csc\theta = \frac{13}{5}$$



Work on 3-18 (remember every third)

Using your calculator, find:

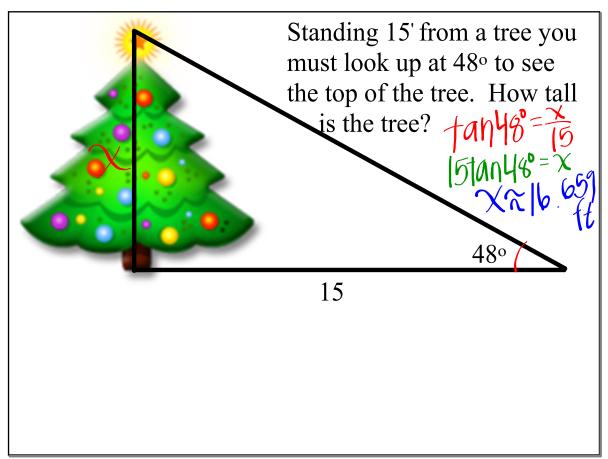
$$\tan 8^{\circ} = 1405$$

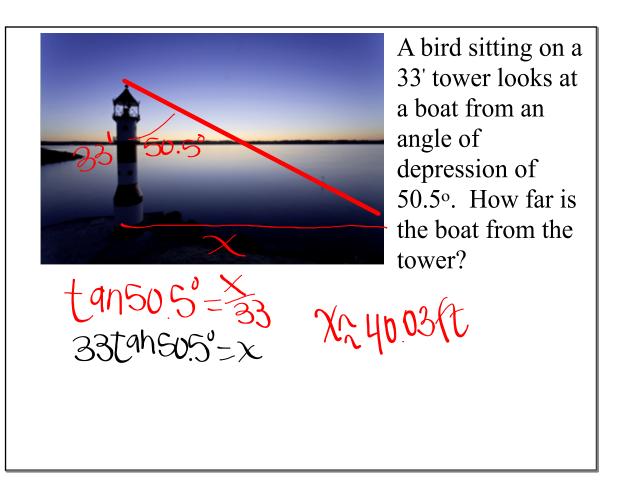
$$\cot \frac{\pi}{12} = \frac{1}{\tan \frac{\pi}{12}} \approx 3.$$

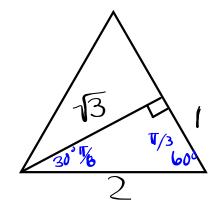
$$\cos 18.15^{\circ} = 950$$

$$\tan 5.25 =$$

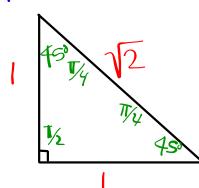
$$\sec\frac{\pi}{6} = |.|55$$







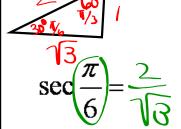




Find the angle or value without a calculator:

$$\cot\frac{\pi}{3} = \frac{1}{\sqrt{3}}$$

$$\sin\theta = \frac{\sqrt{3}}{2} \quad \theta = 60^{\circ}, \frac{11}{3}$$



$$\cos\theta = \frac{1}{2} \quad (3)^{-1} \left(\frac{1}{3} \right)^{-1}$$

$$\sec\theta = 2^{-6} - 6^{0^{\circ}}$$

