## Bellwork Wednesday, February 28, 2018

1. You are on the ground and see your kite caught in a tree with an angle of elevation of 49°. If you are 80 feet from the tree how high in the tree is the kite? Round to the nearest hundredth.

2. A building needs to add a wheel chair ramp to the front door to give handicapped people access. The front door is 3 feet above the level of the parking lot and the ramp is to make a 5° angle with the ground. If you want to make the ramp out of a single piece of wood find the length of the piece of wood needed to the nearest tenth of a foot.

- 3. Find the exact value of each.
- a) Tan(-1560°)

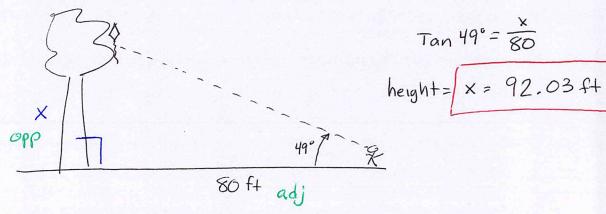
b)  $\sin \frac{95\pi}{6}$ 

c)  $\cos \frac{-59\pi}{4}$ 

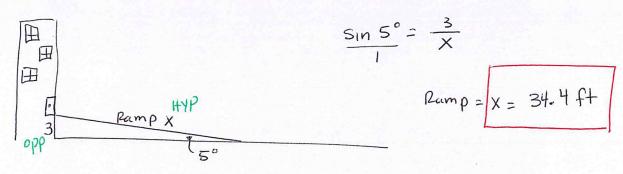
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3. Find the exact value of each.

$$Toun(-15609) = Toun(2400)$$

$$= -\frac{3}{-1}$$

$$= (-\sqrt{3})$$

b) 
$$\operatorname{Sin} \frac{95\pi}{6}$$

c) 
$$\cos \frac{-59\pi}{4}$$

$$\cos^{-\frac{59\pi}{4}} = \cos \frac{5\pi}{4}$$

$$= \left(-\frac{\sqrt{2}}{2}\right)$$