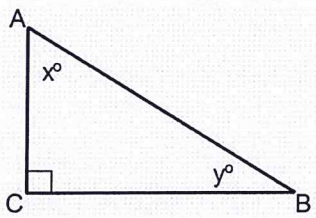
Bellwork Alg 2 Friday, March 15, 2019

1. You are flying a kite and have let out 15m of string. If you see the kite with an angle of elevation of $56°$, find the height of the kite to the nearest tenth of a meter.

2. You are 210 feet from the front door of a tall building. You see a window washer on the outside of the building with an angle of elevation of $62°$. How high up on the building is the window washer? Round to the nearest whole foot.

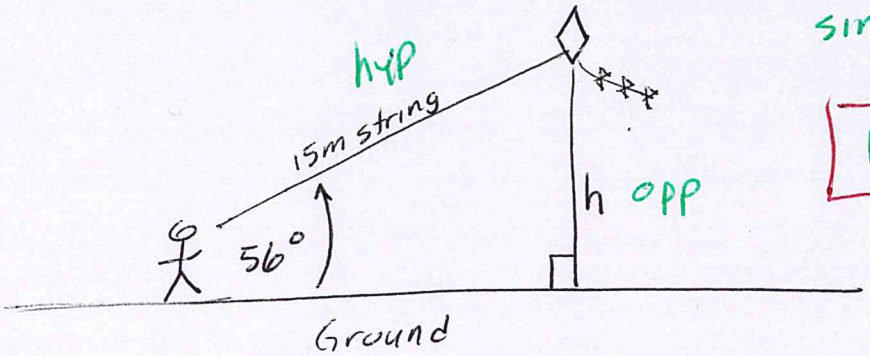
3. In $\triangle ABC$ Sin$x = 0.6$. What is Cos$y$?



Bellwork Alg 2 Friday, March 15, 2019 ANSWERS

1. You are flying a kite and have let out 15m of string. If you see the kite with an angle of elevation of 56°, find the height of the kite to the nearest tenth of a meter.

SOHCAH TOA

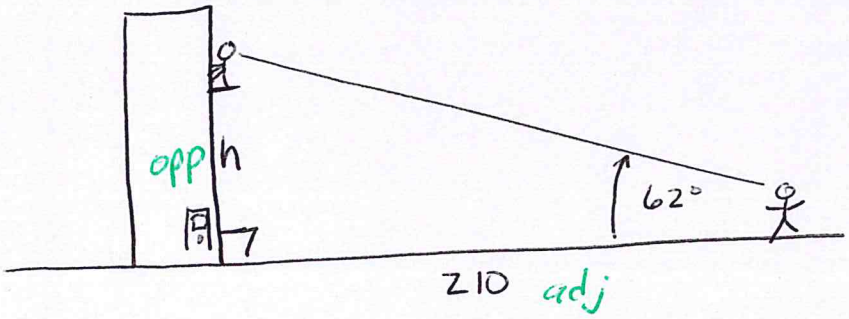


$\sin 56^\circ = \frac{h}{15}$

$h = 12.4\text{ m}$

2. You are 210 feet from the front door of a tall building. You see a window washer on the outside of the building with an angle of elevation of 62°. How high up on the building is the window washer? Round to the nearest whole foot.

SOHCAH TOA



$\tan 62^\circ = \frac{h}{210}$

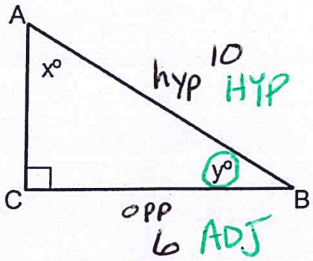
$h = 395\text{ ft}$

3. In $\triangle ABC$ $\sin x = 0.6$. What is $\cos y$?

SOHCAH TOA

$\sin x = 0.6$

$\sin x = \frac{6}{10} = \frac{opp}{hyp}$



$\cos y = \frac{ADJ}{HYP} = \frac{6}{10}$

$\cos y = 0.6$