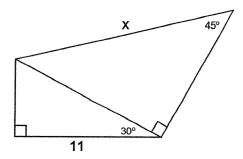
Bellwork Geo Tuesday, March 31, 2020

- 1. You are on the ground 200 ft from a tall building and see a window washer at work on the building with an angle of elevation of 52° . You return to the same spot a little while later and see the same window washer with an angle of elevation of 61° .
- a) Has the window washer moved up or down?

b) How many feet has the window washer moved in that time? Round to the nearest hundredth.

2. Find the EXACT value of x. Given answer in simplified radical form with a rationalized denominator.



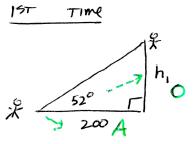
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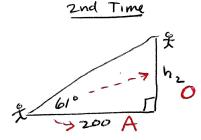
since you had to look up at a larger angle to see the window wacher that the window washer the second time the window washer must have moved UP

b) How many feet has the window washer moved in that time? Round to the nearest hundredth.



SOH CAH TOA

h = 200. Tan 520

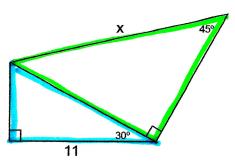


SOH CAH TOA

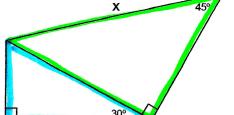
h2 = 200 . Tan 612

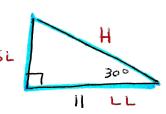
- DISTANCE MOVED $= h_2 - h_1$ =360.81-255.99
 - = 104.82 f

2. Find the EXACT value of x. Given answer in simplified radical form with a rationalized denominator.

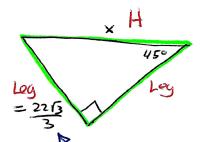


45-45-900





$$H = SL \cdot L = \frac{1113}{3} \cdot J = \frac{2263}{3}$$



$$H = Loy \cdot \sqrt{2}$$

= $\frac{225}{3} \cdot \sqrt{2} = \frac{225}{3} = X$