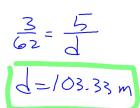
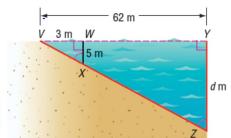
Indirect Measurement.

Finding a distance that is difficult to physically measure by using similar triangles

by AA Sim. Post.

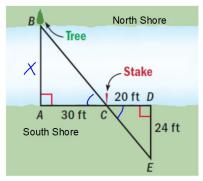
LAKES How deep is the water 62 meters from the shore?





How far is it from Pt A on the South Shore to Pt. B on the North Shore?

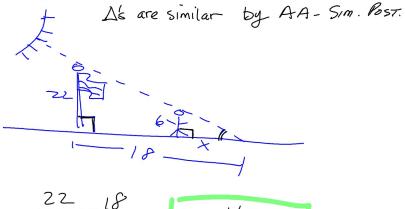
∆'s are Similar by AA Sim. Post.



$$\frac{30}{20} = \frac{x}{24}$$

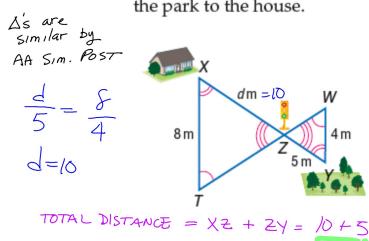
$$x = 36 \text{ ft}$$

A 22 foot tall flagpole casts an 18 foot long shadow. How long would the shadow of a 6 foot tall person be?



$$\frac{22}{6} = \frac{18}{x}$$
 $x = 4.91 \text{ ft}$

WALKING Find the distance from the park to the house.



Hwk #12

Sec 7-3

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Problems 4-6, 16-19, 28