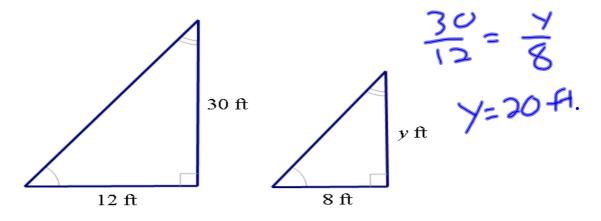
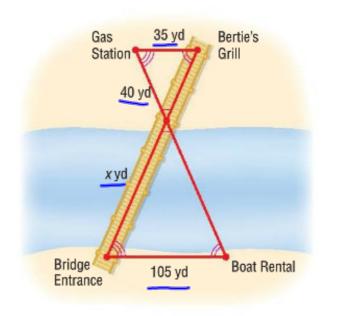
6-9 Indirect Measurement

Warm up: If the triangles are similar, solve for y:

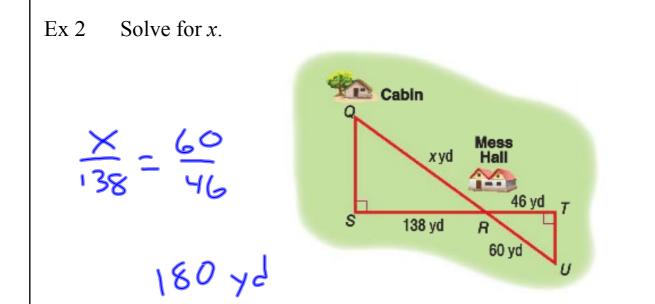


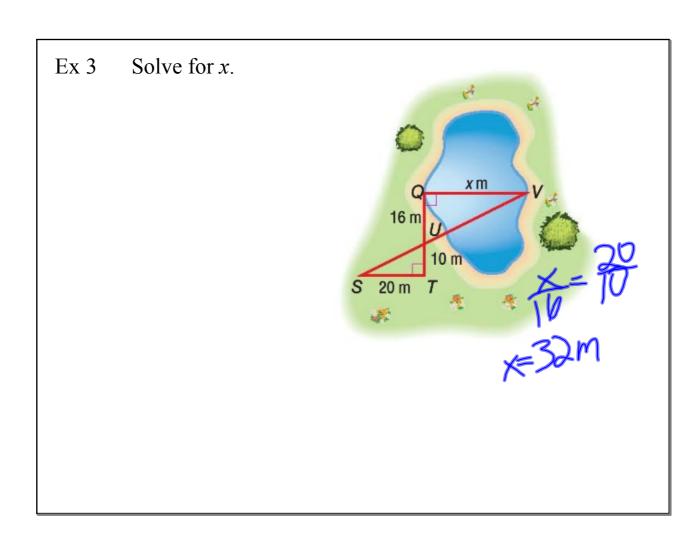
Ex. 1 Solve for
$$x$$
.

$$\frac{\times}{105} = \frac{40}{35}$$

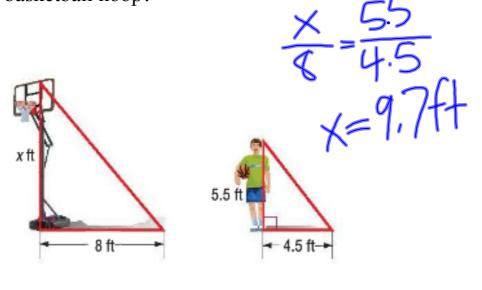


60 yd





Ex. 4 A basketball hoop in Miguel's backyard casts a shadow that is 8 feet long. At the same time, Miguel casts a shadow that is 4.5 feet long. If Miguel is 5.5 feet tall, how tall is the basketball hoop?



Ex. 5 A tree casts a shadow 10 feet long. A 5 foot tall woman casts a shadow 4 feet long. How tall is the tree?



Ex. 6 The statue of the Korean War Memorial in Washington DC casts a 43.5 inch shadow at the same time a nearby tourist casts a 32 inch shadow. If the tourist is 64 inches tall, how tall is the statue?

×= 64 13.5 32 ×= 87:0

Ex 7 A tower casts a 27.6 foot long shadow at the same time a person casts a 1.2 foot long shadow. If the person is 6 feet tall, how tall is the tower?



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