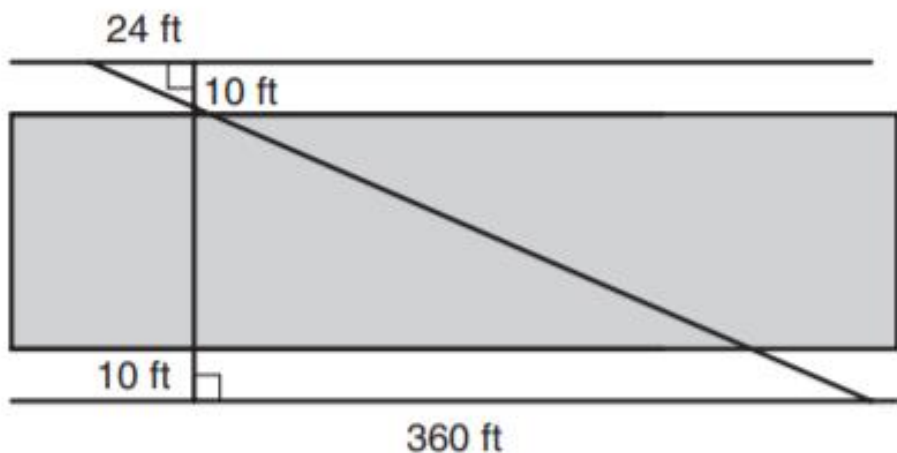# Write the correct proportion and solve for the missing length

1) Elly and Jeff are on opposite sides of a canyon that runs east to west, according to the graphic. They want to know how wide the canyon is. Each person stands 10 feet from the edge. Then, Elly walks 24 feet west, and Jeff walks 360 feet east.

What is the width of the canyon?

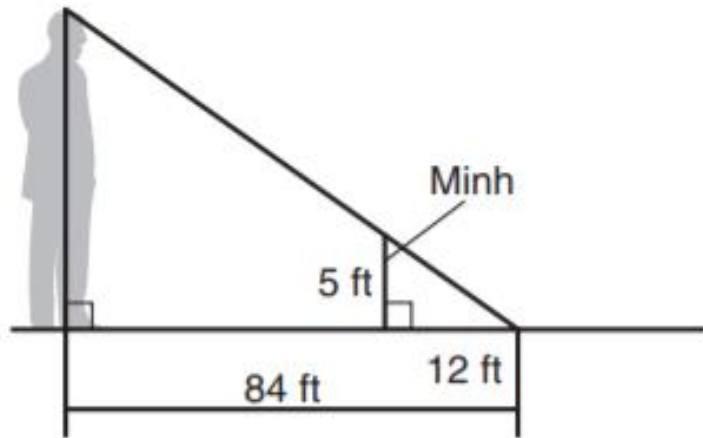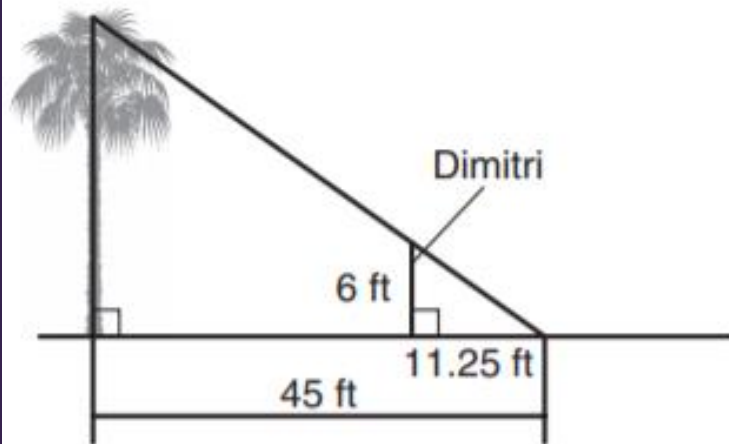# Write the correct proportion and solve for the missing length

2) Minh wanted to measure the height of a statue. She lined herself up with the statue's shadow so that the tip of her shadow met the tip of the statue's shadow. She marked the spot where she was standing. Then, she measured the distance from where she was standing to the tip of the shadow, and from the statue to the tip of the shadow.

Minh

5 ft

84 ft   12 ft

What is the height of the statue?

Write the correct proportion and solve for the missing length

3) Dimitri wants to measure the height of a palm tree. He lines himself up with the palm tree's shadow so that the tip of his shadow meets the tip of the palm tree's shadow. Then, he asks a friend to measure the distance from where he was standing to the tip of his shadow and the distance from the palm tree to the tip of its shadow.
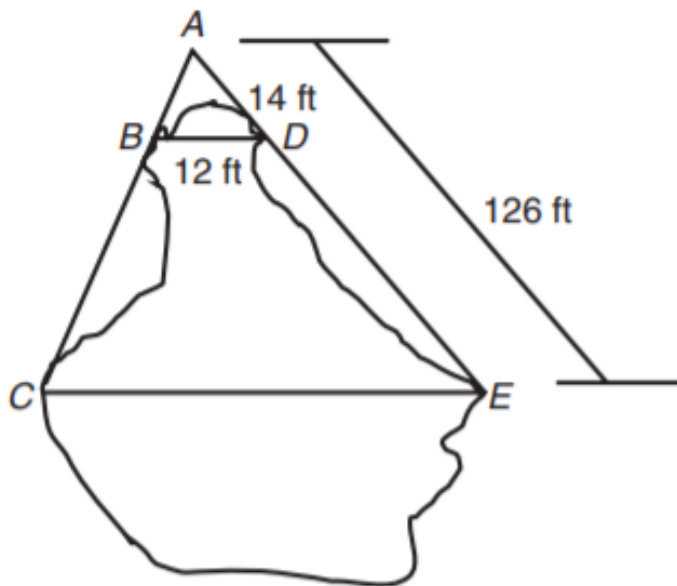
Dimitri

6 ft

11.25 ft

45 ft

What is the height of the palm tree?

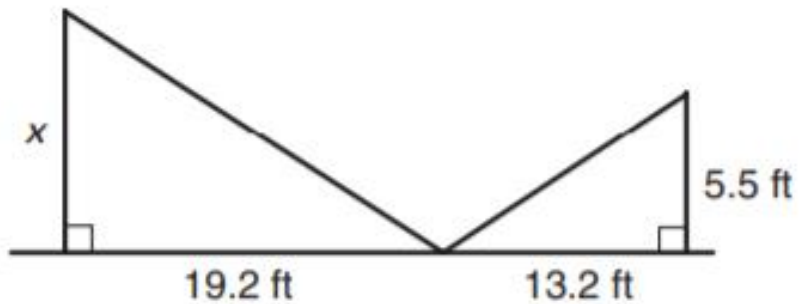# Write the correct proportion and solve for the missing length

4) Andre is making a map of a state park. He finds a small bog, and he wants to measure the distance across the widest part. He first marks the points A, C, and E. Andre measures the distances shown on the image. Andre also marks point B along AC and point D along AE, such that BD is parallel to CE.

What is the width of the bog at the widest point?

Write the correct proportion and solve for the missing length

5) Keisha is visiting a museum. She wants to know the height of one of the sculptures. She places a small mirror on the ground between herself and the sculpture, then she backs up until she can see the top of the sculpture in the mirror.

x

5.5 ft

19.2 ft   13.2 ft

What is the height of the sculpture?