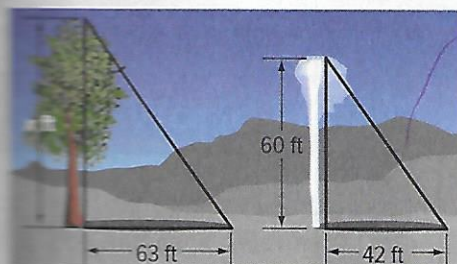


Extra Practice

13. What is the height of the tree? 90 ft

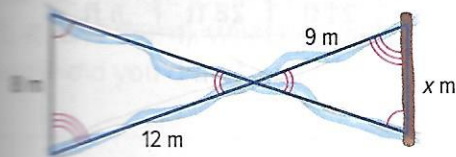
The triangles are similar. Write and solve a proportion.

$$\frac{63}{42} = \frac{x}{60}$$

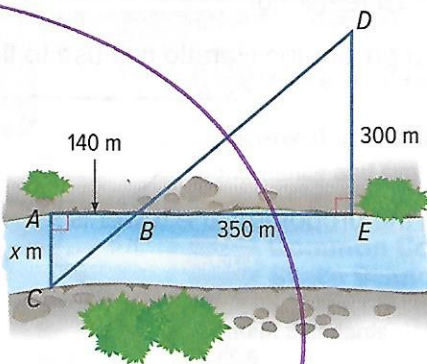
$$63 \cdot 60 = 42x$$

$$90 = x$$

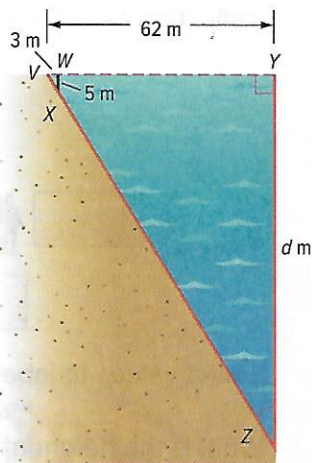
15. About how long is the log that goes across the creek? _____



14. Find the distance across the river. _____



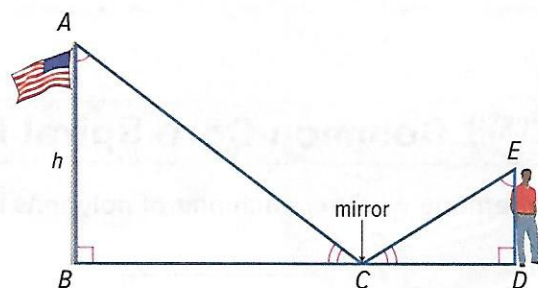
16. How deep is the water 62 meters from the shore? _____

18. In the diagram shown at the right, $\triangle ABC \sim \triangle EDC$.

a. Write a proportion that could be used to solve

for the height h of the flag pole. _____

b. What information would you need to know in order to solve this proportion?



19. **Model with Mathematics** A 78-inch-tall man casts a shadow that is 54 inches long. At the same time, a nearby building casts a 48-foot-long shadow. Write and solve a proportion to find the height of the building.