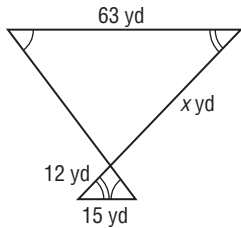


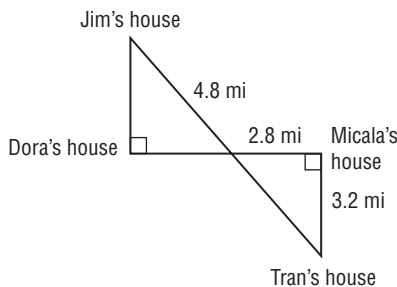
6-9 Practice

Indirect Measurement

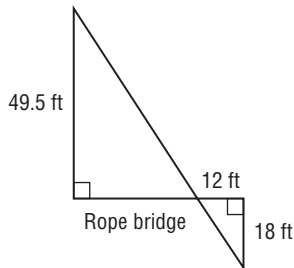
- 1. GEOMETRY** The triangles below are similar. What is the value of x ?



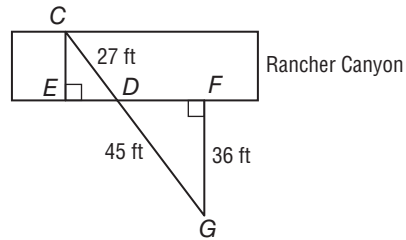
- 3. DISTANCES** The triangles below are similar. How far is Dora's house from Micala's house?



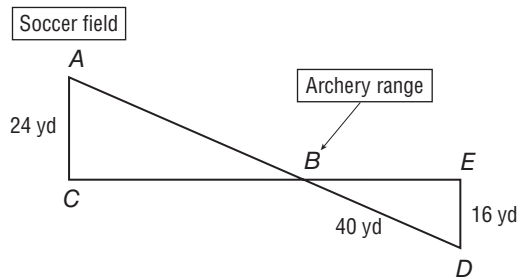
- 5. BRIDGES** The triangles below are similar. How long is the rope bridge?



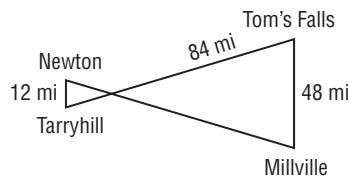
- 2. CANYONS** In the figure, $\triangle CDE \sim \triangle GDF$. Find the distance across Rancher Canyon.



- 4. OUTDOOR SPORTS** In the figure, $\triangle ABC \sim \triangle DBE$. How far is the archery range from the soccer field?



- 6. DISTANCES** The triangles below are similar. What is the distance between Tarryhill and Tom's Falls?



- 7. CHIMNEYS** A 6-ft observer casts a 4-ft shadow at the same time a chimney casts a 238-foot shadow. How tall is the chimney?

- 8. BUILDINGS** The May Road Apartments in Hong Kong cast a 90-meter shadow at the same time a 1.5-meter tall tenant casts a 0.75-meter shadow. How tall is the apartment building?

- 9. WORLD RECORDS** The world's tallest man lived from 1918 to 1940. He cast a 4-foot $5\frac{1}{2}$ -inch shadow when a 6-foot pole cast a 3-foot shadow. How tall was he?

- 10. SHADOWS** A man casts a 14-foot shadow. A 4-foot child casts a 9-foot 4-inch shadow at the same time. How tall is the man?