9-6 Skills Practice
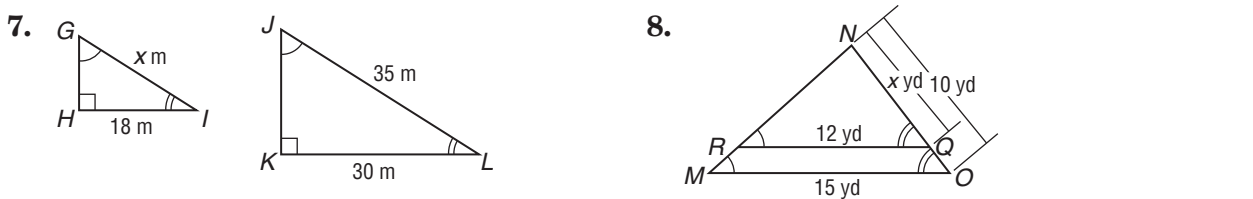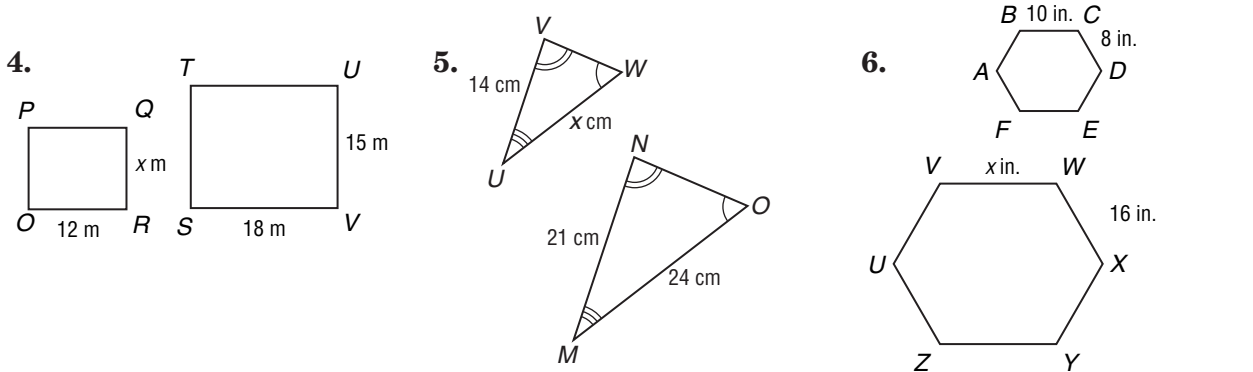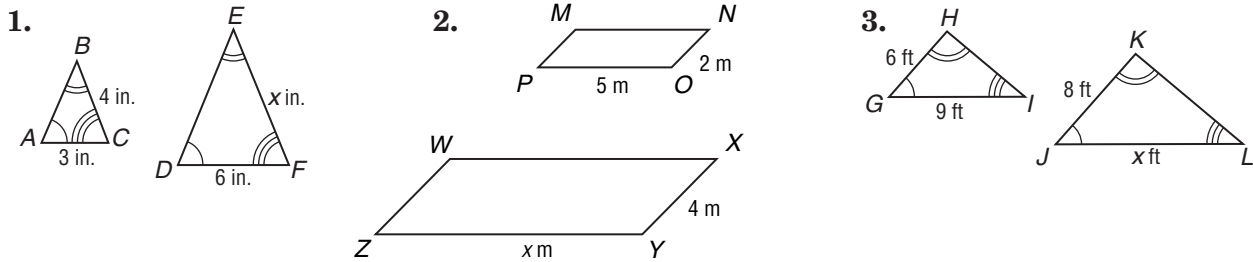
Similar Polygons and Indirect Measurement

In Exercises 1–10, the triangles are similar. Find each value of x.

1.

2.

3.

4.

5.

6.

7.

8.

9. How far is the store from the bank?

10. How far is the tree from the flagpole?
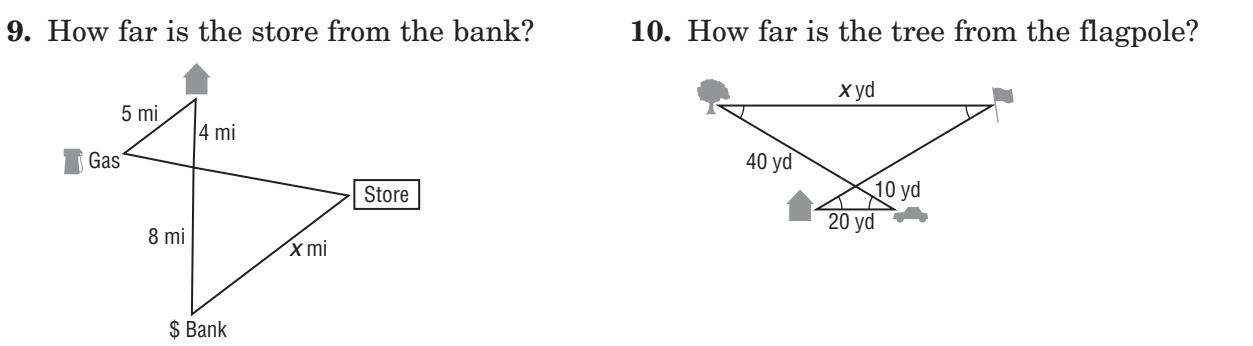
For Exercises 11 and 12, write a proportion. Then determine the missing measure.

11. ANIMALS At the same time a 12-foot adult elephant casts a 4.8-foot shadow, a baby elephant casts a 2-foot shadow. How tall is the baby elephant?

12. AIRPORTS If a 12-meter-tall airplane hangar casts a 18-meter shadow at the same time a parked jet casts a 6-meter shadow, how tall is the jet?