Name_____ Date_____

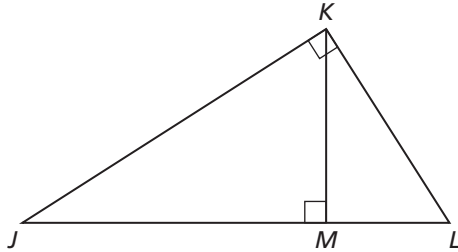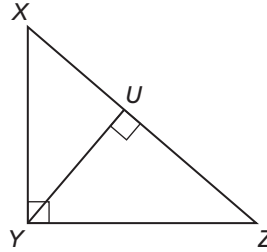## 9.3 Practice A

In Exercises 1 and 2, identify the similar triangles.
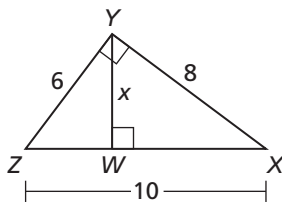
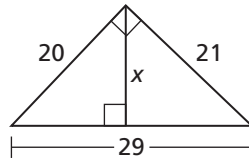**1.**

2.

In Exercises 3–5, find the value of *x*.
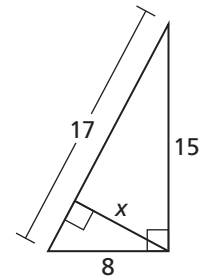
3.

4.

5.

In Exercises 6–8, find the geometric mean of the two numbers.

6. 3 and 12
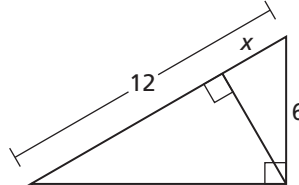
7. 4 and 14

8. 10 and 24

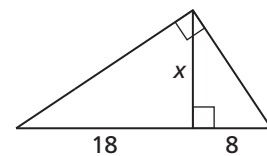**In Exercises 9–11, find the value of *x*.**

9.
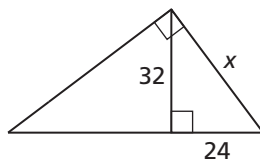
10.

11.

12. You are designing a diamond-shaped kite. You know that $AB = 38.4$ centimeters, $BC = 72$ centimeters, and $AC = 81.6$ centimeters. You want to use a straight crossbar $\overline{BD}$. About how long should it be?