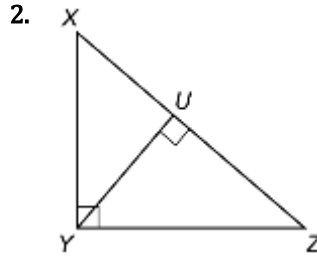
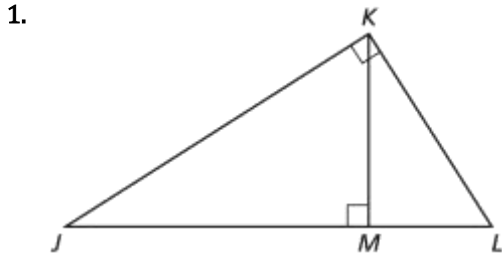
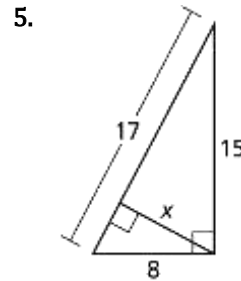
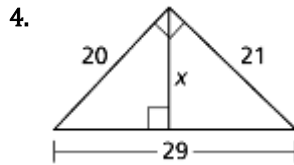
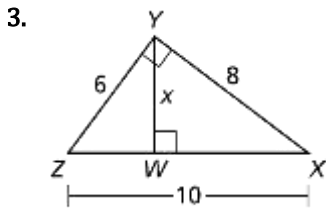


# HW 9.3 Similar Right Triangles

In Exercises 1 and 2, identify the similar triangles.



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



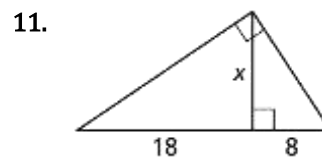
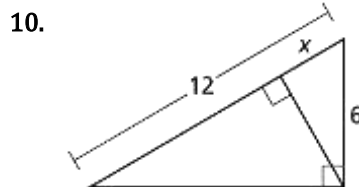
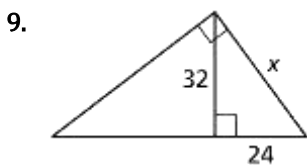
In Exercises 6–8, find the geometric mean of the two numbers.

6. 3 and 12

7. 4 and 14

8. 10 and 24

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



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?

