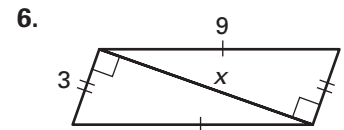
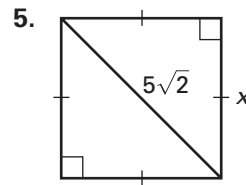
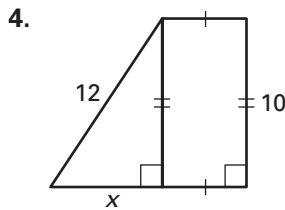
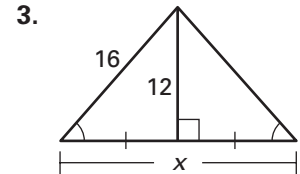
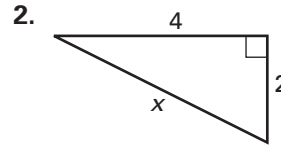
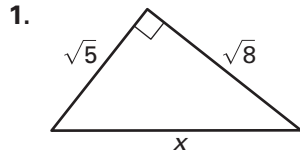


Practice C

For use with pages 535–541

Find the unknown side length. Simplify answers that are radicals.
Tell whether the side lengths form a Pythagorean triple.



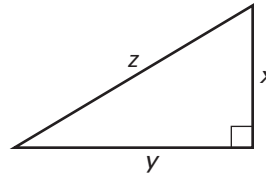
Find the missing length so that x , y , and z are Pythagorean triples.

7. $x = 6, y = 8$

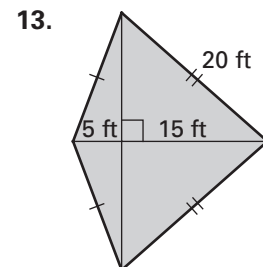
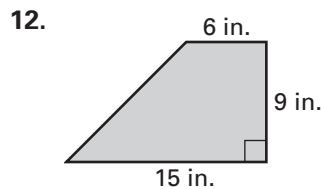
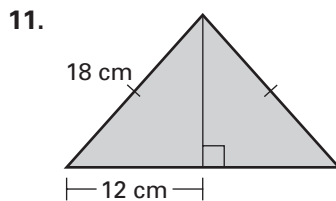
8. $y = 24, z = 26$

9. $x = 16, y = 30$

10. $x = 24, z = 51$



Find the area of the figure. Round decimal answers to the nearest tenth.



14. A standard doorway measures 6 feet 8 inches by 3 feet. What is the largest dimension that will fit through the doorway without bending?

15. Use the Pythagorean Theorem and the diagram at the right to show $AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$. That is, show the distance formula is true.

16. Solve for x in the partial spiral shown at the right.

