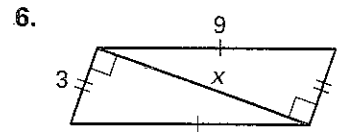
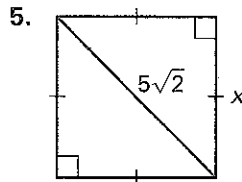
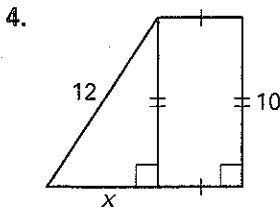
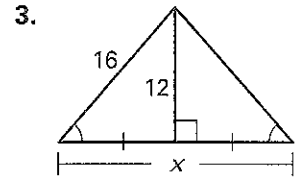
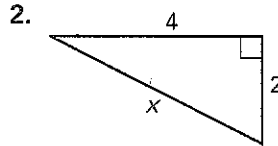
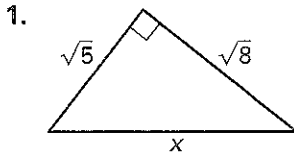


**Practice C**

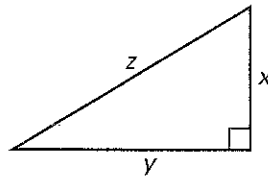
For use with pages 535–541

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

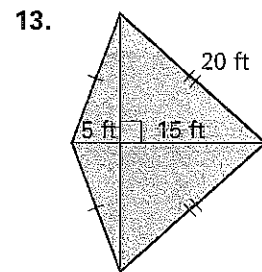
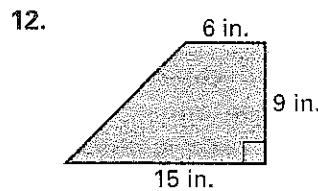
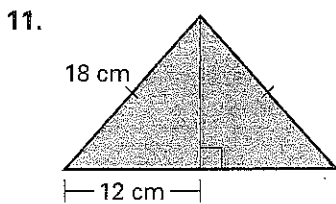


Find the missing length so that  $x$ ,  $y$ , and  $z$  are Pythagorean triples.

- 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.

