NAME _____ DATE _____

Practice B

For use with pages 535–541

Use △*ABC* to determine if the equation is *true* or *false*.

1. $b^2 + a^2 = c^2$
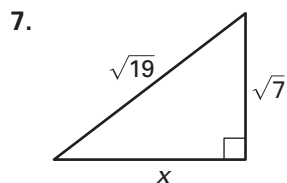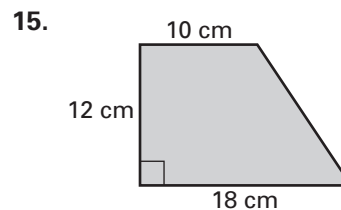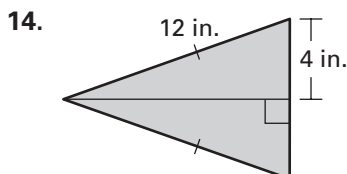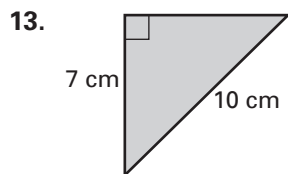
2. $c^2 - a^2 = b^2$

3. $b^2 - c^2 = a^2$

4. $c^2 = a^2 - b^2$

5. $c^2 = b^2 + a^2$

6. $a^2 = c^2 - b^2$
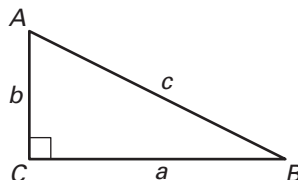
Find the unknown side length. Simplify answers that are radicals. Tell whether the side lengths form a Pythagorean triple.

7.

8.

9.

10.

11.

12.
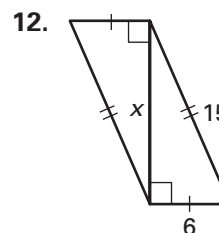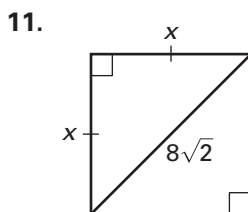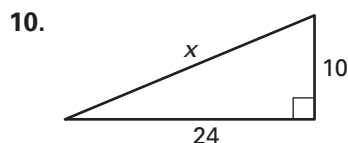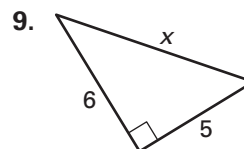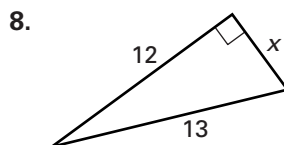
Find the area of the figure. Round decimal answers to the nearest tenth.

13.

14.

15.

Solve. Round your answer to the nearest tenth.

16. A smaller commuter airline flies to three cities whose locations form the vertices of a right triangle. The total flight distance (from city A to city B to city C and back to city A) is 1400 miles. It is 600 miles between the two cities that are furthest apart. Find the other two distances between cities.

17. Each base on a standard baseball diamond lies 90 feet from the next. Find the distance the catcher must throw a baseball from 3 feet behind home plate to second base.

Lesson 9.2