Name _____ **Date** _____

LESSON 7.1

Practice B

For use with pages 432–439

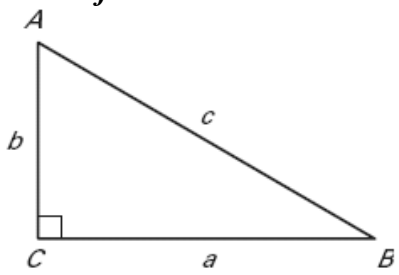
Use $\triangle ABC$ to determine if the equation is *true or false.*

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

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

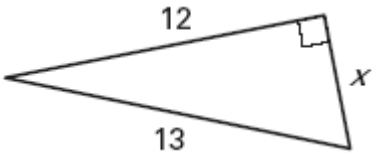
3. $c^2 = b^2 + a^2$

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



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

5.



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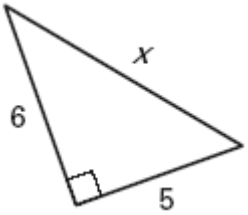

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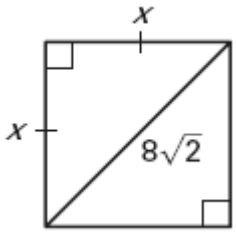

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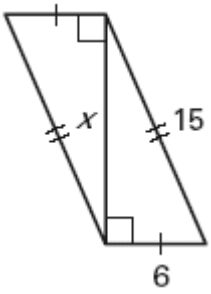


The given lengths are two sides of a right triangle. All three side lengths of the triangle are integers and together form a Pythagorean triple. Find the length of the third side and tell whether it is a leg or the hypotenuse.

9. 40 and 41

10. 12 and 35

11. 48 and 55

12. 65 and 72

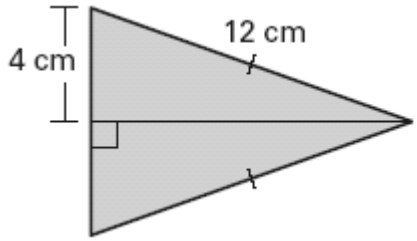
Find the area of a right triangle with given leg *l* and hypotenuse *h*. Round decimal answers to the nearest tenth.

13. $l = 21$ in., $h = 29$ in.

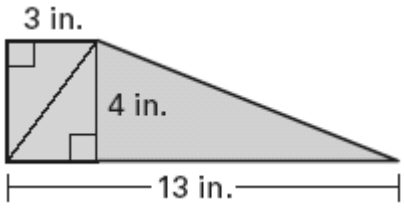
14. $l = 13$ cm, $h = 17$ cm

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

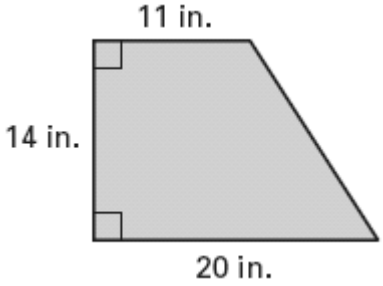
15.



16.



17.



18.