

Practice B

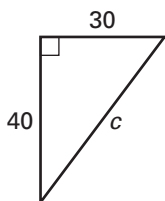
For use with pages 191–198

Complete the statement.

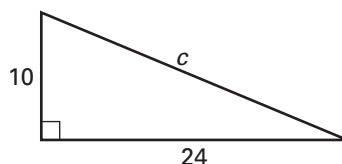
- In a right triangle, the square of the length of the hypotenuse is equal to ?.
- If $A(x_1, y_1)$ and $B(x_2, y_2)$ are points in a coordinate plane, then the distance between A and B is $AB = \underline{?}$.

Find the length of the hypotenuse. Round your answers to the nearest tenth, if necessary.

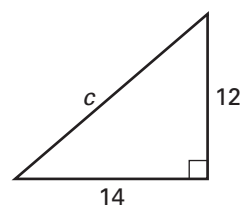
3.



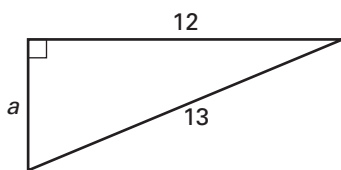
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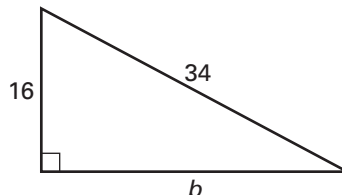
5.

**In Exercises 6–8, find the unknown side length. Round your answers to the nearest tenth, if necessary.**

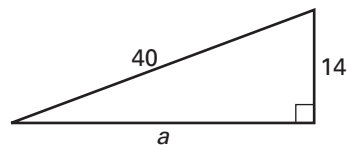
6.



7.



8.



- Do the side lengths 5, 6, and 7 form a Pythagorean Triple? Explain your reasoning.

Find the distance between the points. Round your answer to the nearest tenth, if necessary.

10. $P(-2, 1), Q(3, 2)$

11. $P(-1, 2), Q(3, 0)$

12. $P(0, 3), Q(3, -1)$

- You are standing 30 feet from the base of a 100 foot tall building. How far from the top of the building are you? Round your answer to the nearest foot.

