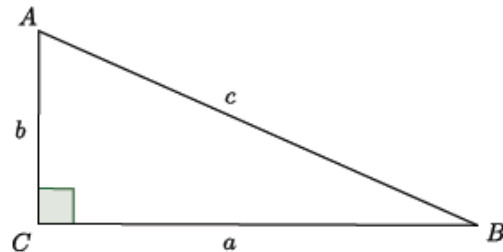


Lesson Summary

Given a right triangle ABC with C being the vertex of the right angle, then the sides \overline{AC} and \overline{BC} are called the *legs* of $\triangle ABC$, and \overline{AB} is called the *hypotenuse* of $\triangle ABC$.



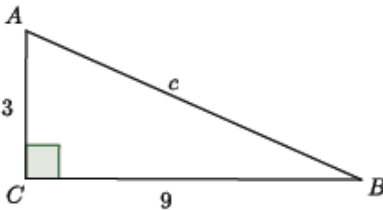
Take note of the fact that side a is opposite the angle A , side b is opposite the angle B , and side c is opposite the angle C .

The Pythagorean theorem states that for any right triangle, $a^2 + b^2 = c^2$.

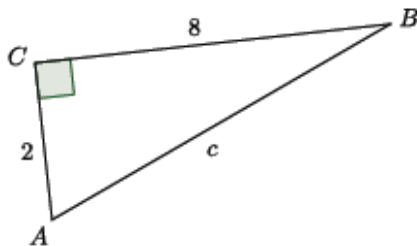
Problem Set

For each of the problems below, determine the length of the hypotenuse of the right triangle shown. Note: Figures are not drawn to scale.

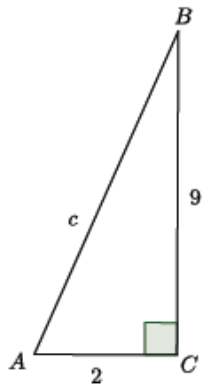
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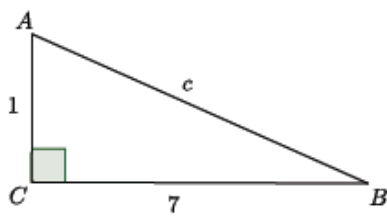
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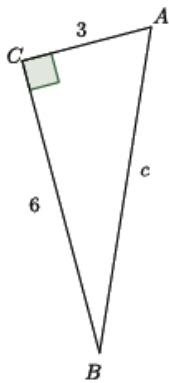
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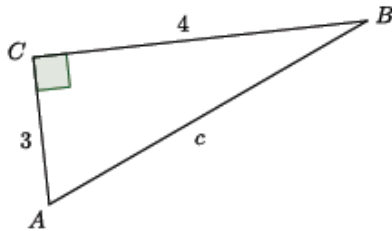
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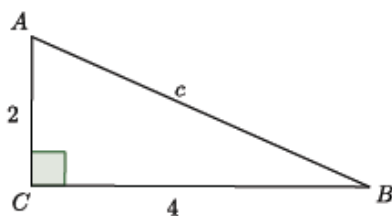
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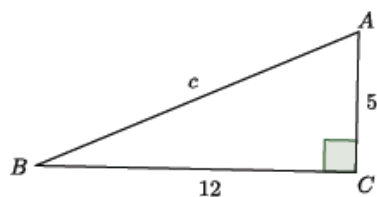
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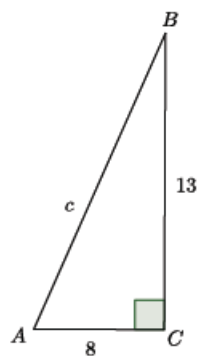
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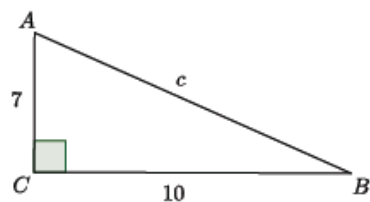
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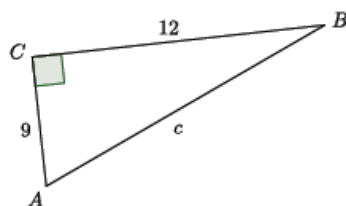
9.



10.



11.



12.

