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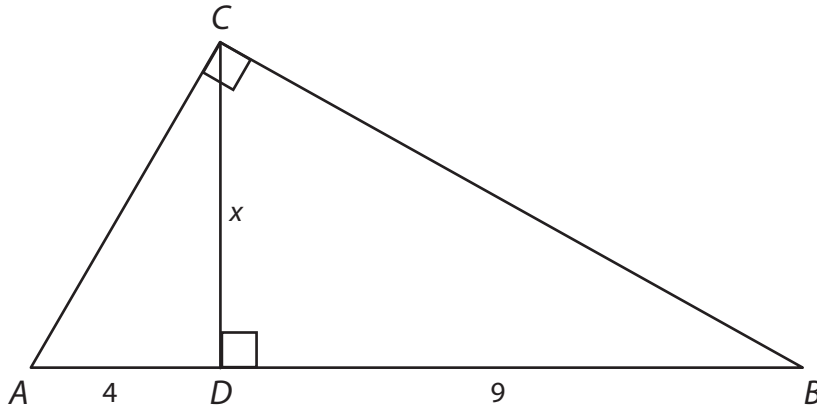
UNIT 5 • SIMILARITY, RIGHT TRIANGLE TRIGONOMETRY, AND PROOF

Lesson 4: Proving Similarity

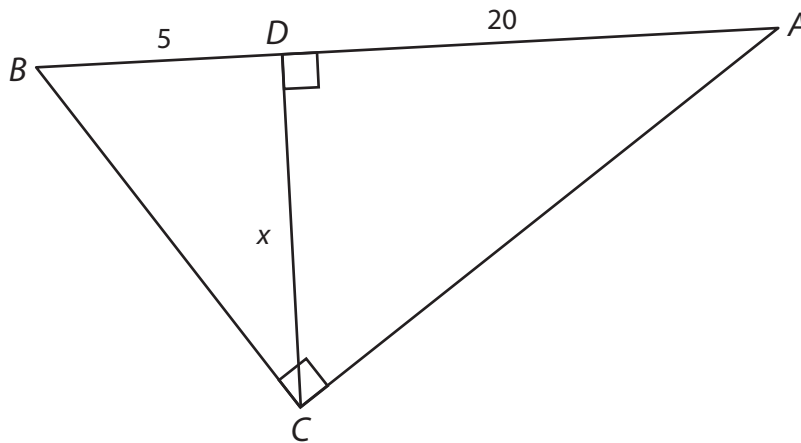
Practice 5.4.3: Proving the Pythagorean Theorem Using Similarity

Find the unknown length(s) in each figure.

1.



2.



continued

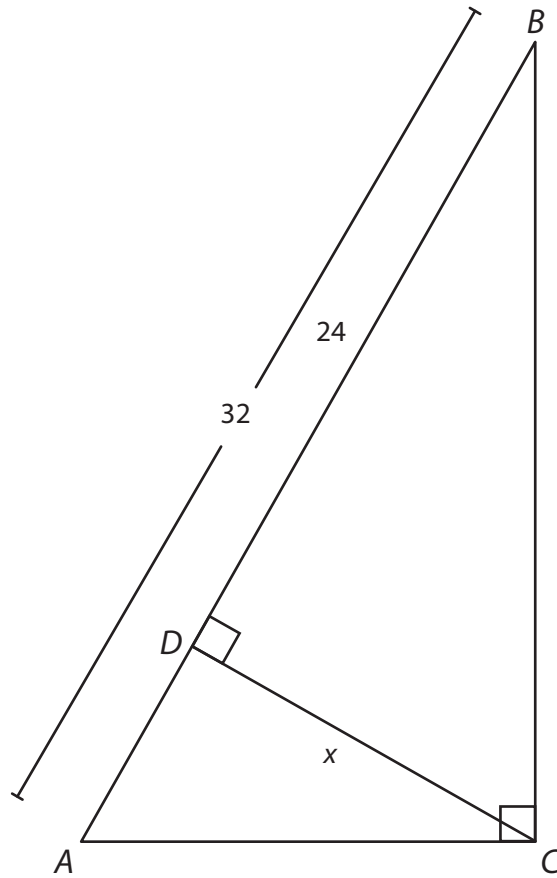
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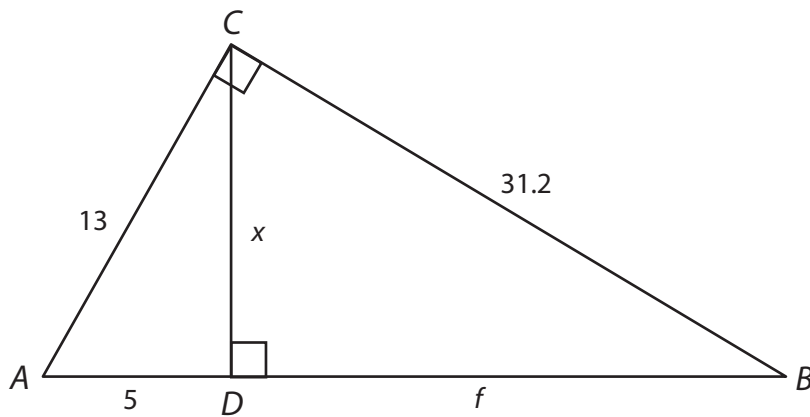
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3.



4.



continued

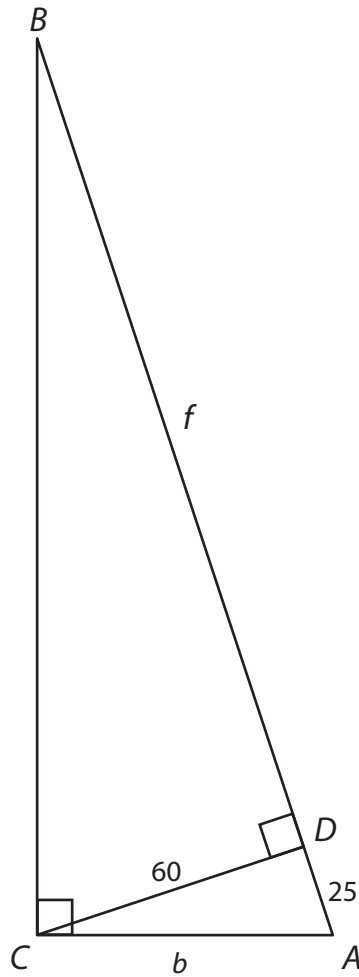
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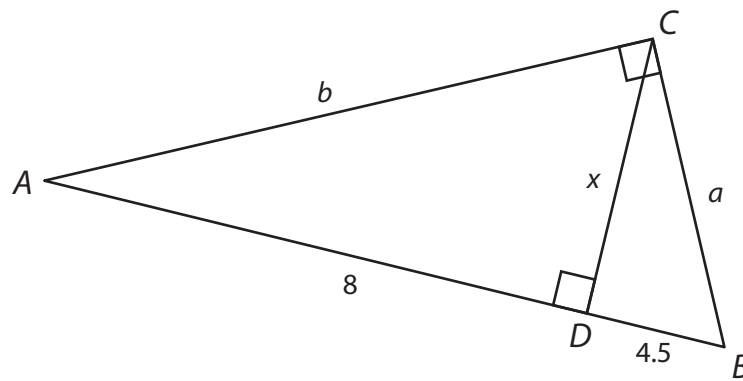
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5.



6.



continued

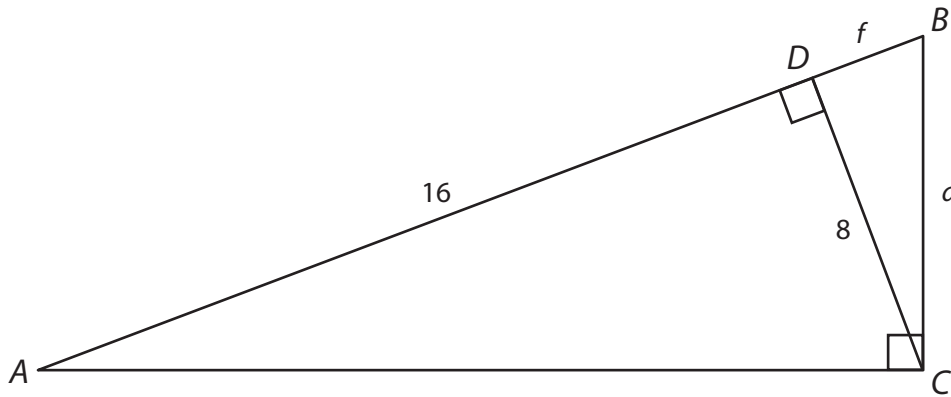
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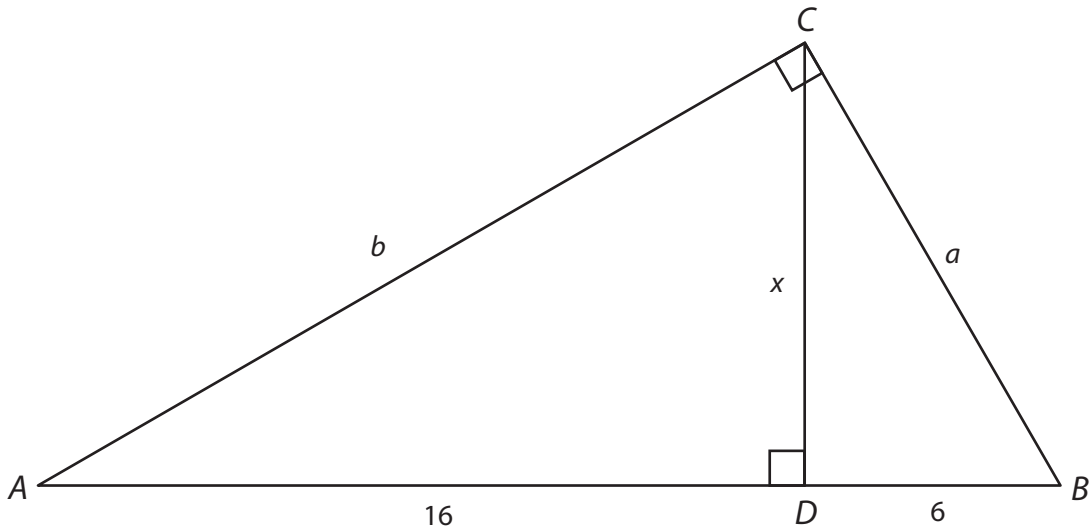
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7.



8.



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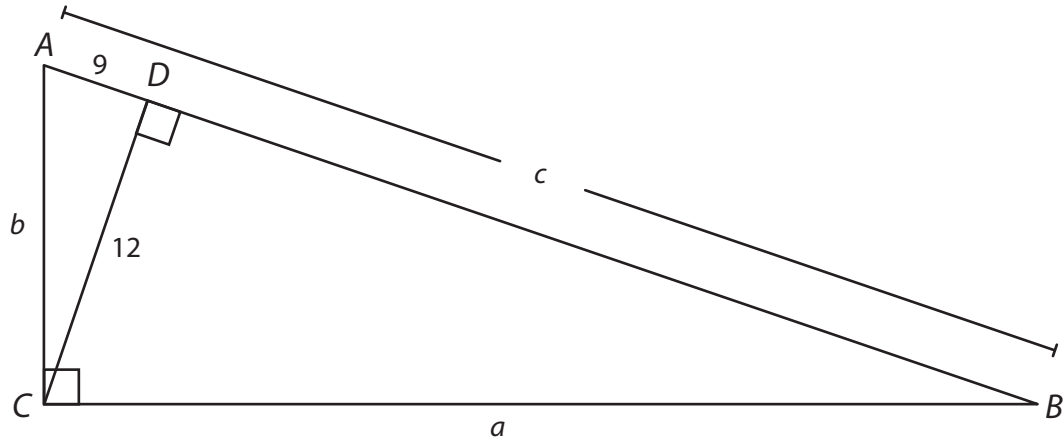
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Lesson 4: Proving Similarity

9.



10. Using similar triangles, write a two-column proof to prove the converse of the Pythagorean Theorem.

Given: $\triangle ABC$, with $c^2 = a^2 + b^2$

Prove: $\triangle ABC$ is a right triangle.