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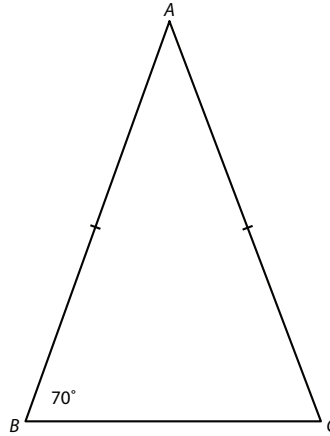
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Practice: Proving Theorems About Isosceles Triangles

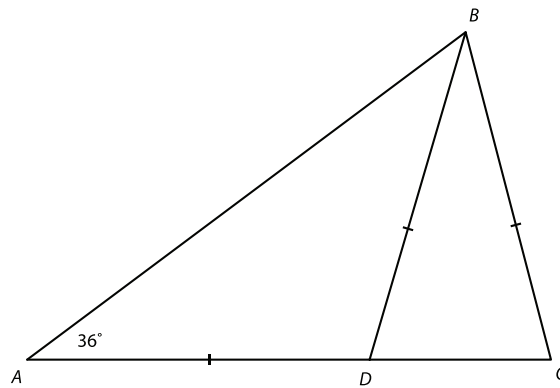
B

Use what you know about isosceles triangles to find each angle measure.

1. $m\angle A$ and $m\angle C$



2. $m\angle ADB$, $m\angle DCB$, and $m\angle DBC$

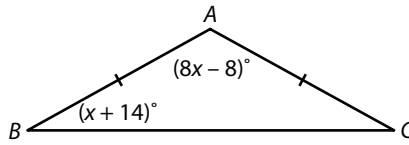


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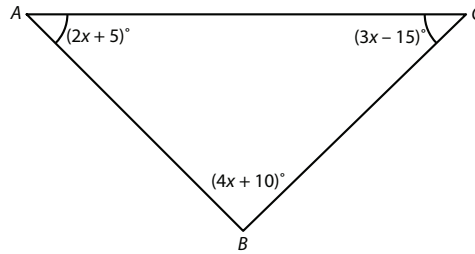
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3. $m\angle A$, $m\angle B$, and $m\angle C$

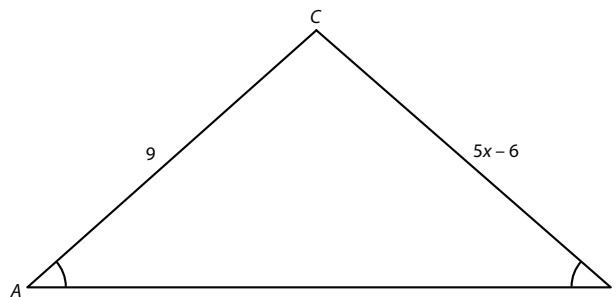


4. $m\angle A$, $m\angle B$, and $m\angle C$



Find each value using the given information.

5. x

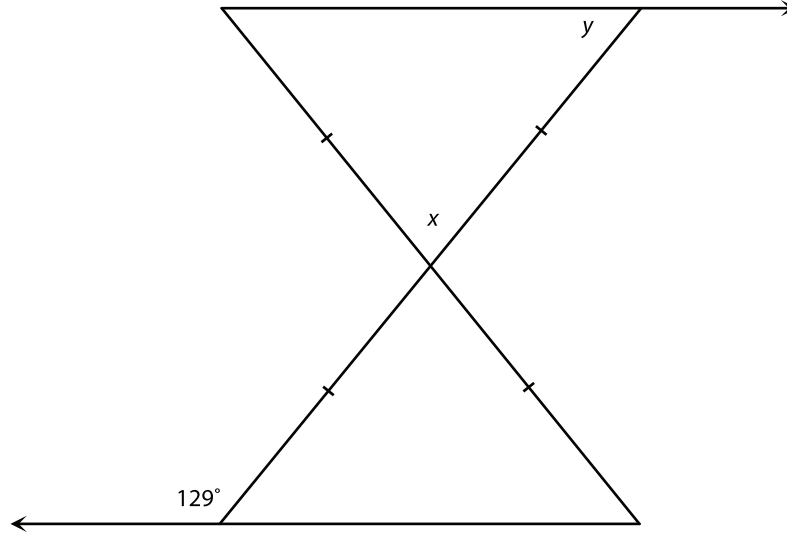


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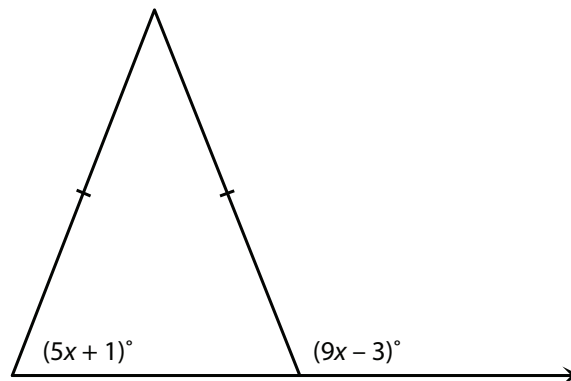
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6. $m\angle x$ and $m\angle y$



7. x



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For problems 8 and 9, use the given vertices to determine whether $\triangle ABC$ is an isosceles triangle. If it is isosceles, name a pair of congruent angles.

8. $A(-3, -4), B(-3, 2), C(4, -4)$

9. $A(5, 0), B(-3, 0), C(1, 3)$

Complete the following paragraph proof.

10. Given that $\triangle ABC$ is equiangular, prove $\triangle ABC$ is equilateral.