

# Reteaching Worksheet

## Isosceles Triangles

Remember that two sides of an isosceles triangle are congruent. Two important theorems about isosceles triangles are as follow:

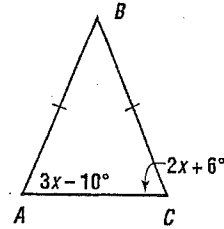
If two sides of a triangle are congruent, then the angles opposite those sides are congruent.

If two angles of a triangle are congruent, then the sides opposite those angles are congruent.

**Example:** Find the value of  $x$ .

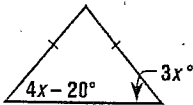
Since  $\overline{AB} \cong \overline{BC}$ , the angles opposite  $\overline{AB}$  and  $\overline{BC}$  are congruent. So  $m\angle A = m\angle C$ .

$$\begin{aligned} \text{Therefore, } 3x - 10 &= 2x + 6 \\ x &= 16 \end{aligned}$$

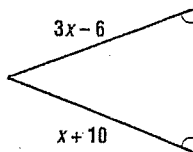


Find the value of  $x$ .

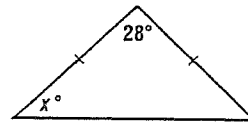
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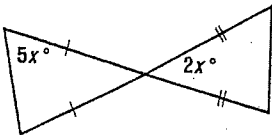
2.



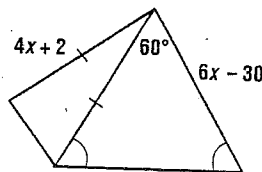
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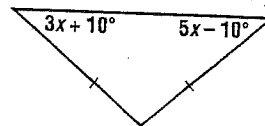
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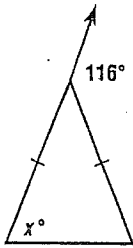


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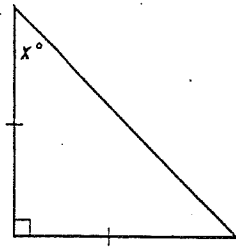


**Isosceles Triangles**Find the value of  $x$ .

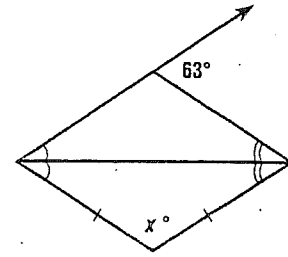
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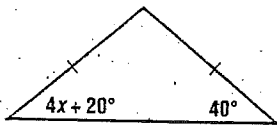
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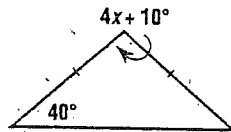
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