REVIEW: Angles of Triangles
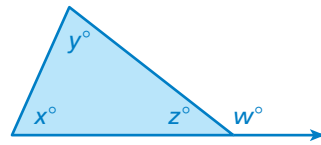
Key Concept and Vocabulary

- The sum of the interior angle measures of a triangle is 180°.
- The measures of an exterior angle of a triangle is equal to the sum of the measures of the two nonadjacent interior angles.

Angles

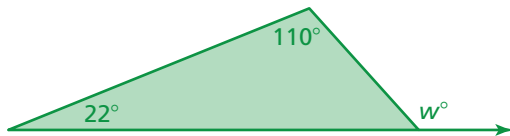## Visual Model

$x + y + z = 180$

$w = x + y$

Skill Example

1.

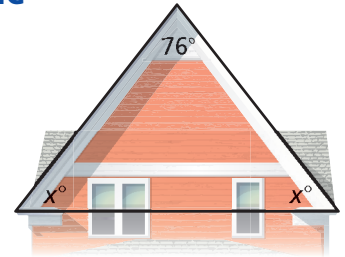$w = 22 + 110$

$w = 132$

Application Example

2. Find the value of x.

$x + x + 76 = 180$

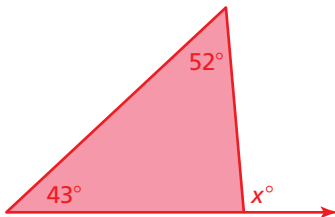$2x + 76 = 180$

$2x = 104$

$x = 52$

The value of x is 52.

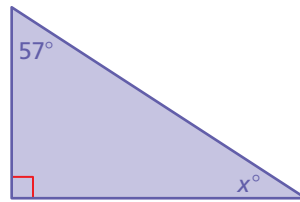## PRACTICE MAKES *PURR*-FECT®

Check your answers at BigIdeasMath.com.
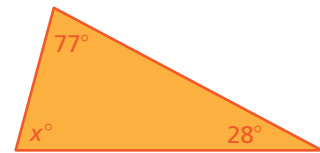
Find the value of x.

3.

$x = $ _____ 95 _____

4.

$x = $ _____ 33 _____

5.

$x = $ _____ 75 _____

6.
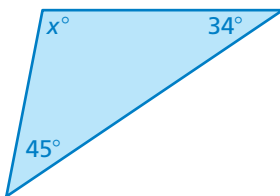
$x = $ _____ 101 _____

7.
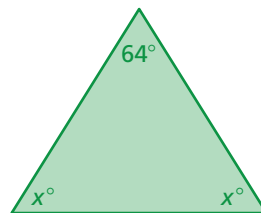
$x = $ _____ 58 _____

8.
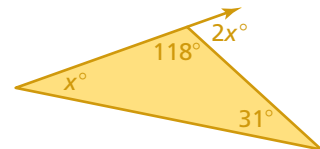
$x = $ _____ 31 _____

9. PARK A car travels around the park shown at the right. Find the value of x. _____ $x = 63$ _____