REVIEW: Angles of Triangles
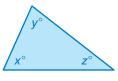
Key Concept and Vocabulary

The sum of the angle measures of a triangle is 180°.

Angles

Visual Model

$x + y + z = 180$

Skill Example

1.

$x + 22 + 48 = 180$

$x + 70 = 180$

$x = 110$

Application Example

2. Find the value of x.
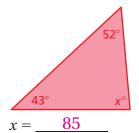
$x + x + 76 = 180$

$2x - 76 = 180$

$2x = 104$

$x = 52$

⋰ The value of x is 52.
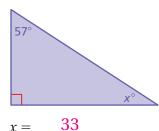
PRACTICE MAKES *PURR*-FECT™
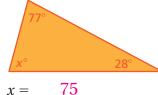
Check your answers at BigIdeasMath.com.
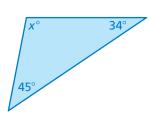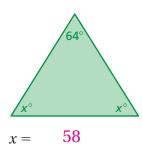
Find the value of x.

3.

52°

43° $x°$

$x = $ ___85___

4.

57°

$x°$

$x = $ ___33___

5.

77°

$x°$ 28°

$x = $ ___75___

6.

$x°$ 34°

45°

$x = $ ___101___

7.

64°

$x°$ $x°$

$x = $ ___58___

8.

118°

$x°$

$x°$

$x = $ ___31___

9. PARK A car travels around the park shown at the right. What is the value of x?

___$x = 63$___

1st Avenue   66°   Short Street

51°

$x°$

Main Street