

REVIEW: Angles of Triangles

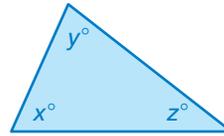
Name _____

Key Concept and Vocabulary

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



Visual Model



$$x + y + z = 180$$

Skill Example

1.



$$x + 22 + 48 = 180$$

$$x + 70 = 180$$

$$x = 110$$

Application Example

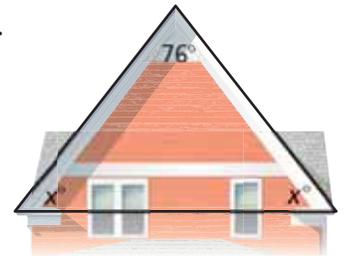
2. Find the value of x .

$$x + x + 76 = 180$$

$$2x - 76 = 180$$

$$2x = 104$$

$$x = 52$$



∴ The value of x is 52.

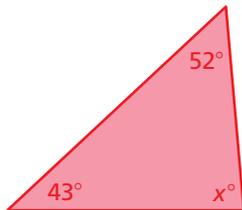
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Check your answers at BigIdeasMath.com.

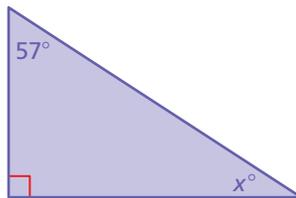
Find the value of x .

3.



$$x = \underline{\hspace{2cm}}$$

4.



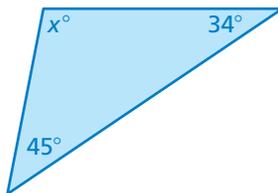
$$x = \underline{\hspace{2cm}}$$

5.



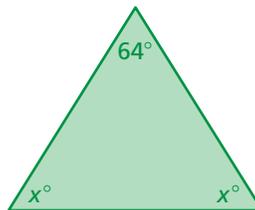
$$x = \underline{\hspace{2cm}}$$

6.



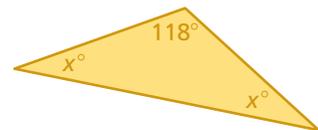
$$x = \underline{\hspace{2cm}}$$

7.



$$x = \underline{\hspace{2cm}}$$

8.



$$x = \underline{\hspace{2cm}}$$

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

