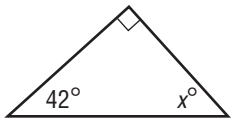
NAME _____ DATE _____ PERIOD _____

Geomentry - Lesson 3 Homework Practice

Triangles

Find the value of x.

1.



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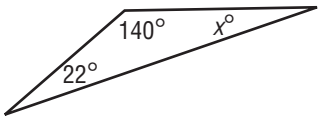

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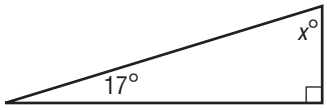


Find the missing measure in each triangle with the given angle measures.

4. 45°, 35.8°, x°

5. 100°, x°, 40.7°

6. x°, 90°, 16.5°

7. Find the third angle of a right triangle if one of the angles measures 24°.

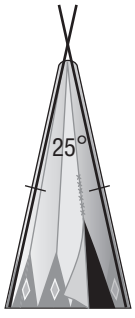
8. What is the third angle of a right triangle if one of the angles measures 51.1°?

9. ALGEBRA Find $m\angle A$ in $\triangle ABC$ if $m\angle B = 38°$ and $m\angle C = 38°$.

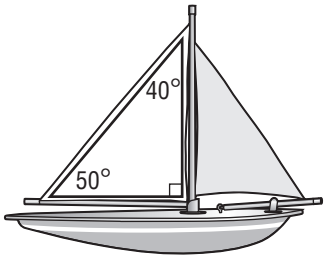
10. ALGEBRA In $\triangle XYZ$, $m\angle Z = 113°$ and $m\angle X = 28°$. What is $m\angle Y$?

Classify the marked triangle in each object by its angles and by its sides.

11.



12.



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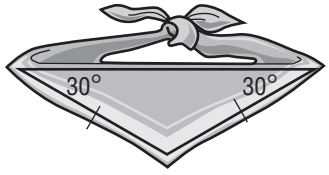
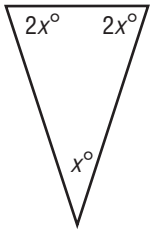


ALGEBRA Find the value of x in each triangle.

14.



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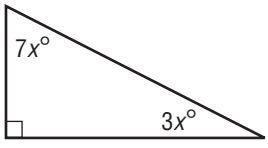

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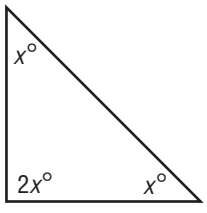


Geomentry - Lesson 3 Homework Practice Problem-Solving

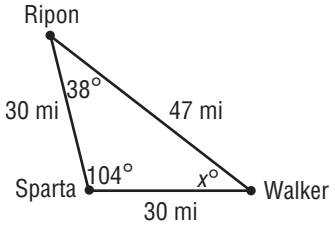
Triangles

1. TAILORING Each lapel on a suit jacket is in the shape of a triangle. The three angles of each triangle measure 47°, 68°, and 65°. Classify the triangle by its angles.

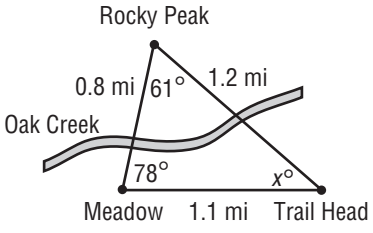
2. FLAGS A naval distress signal flag is in the shape of a triangle. The three sides of the triangle measure 5 feet, 9 feet, and 9 feet. Classify the triangle by its sides.

3. CARPENTRY The supports of a wood table are in the shape of a right triangle. Find the third angle of the triangle if the measure of one of the angles is 23°.

4. MAPS The three towns of Ripon, Sparta, and Walker form a triangle as shown below. Classify the triangle by its angles and by its sides. What is the value of x in the triangle?



5. HIKING The figure shows the Oak Creek trail, which is shaped like a triangle. Classify the triangle by its angles and by its sides. What is the value of x in the figure?



6. LADDER The figure shows a ladder leaning against a wall, forming a triangle. Classify the triangle by its angles and by its sides. What is the value of x in the figure?