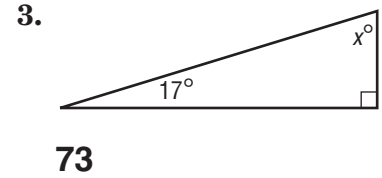
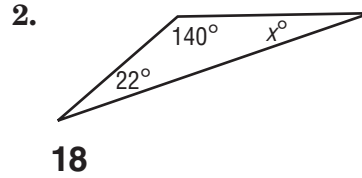
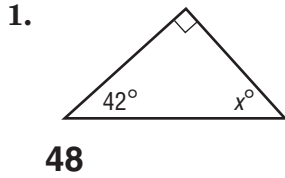


Lesson 3 Homework Practice

Triangles

Find the value of x .



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

4. $45^\circ, 35.8^\circ, x^\circ$ **99.2**

5. $100^\circ, x^\circ, 40.7^\circ$ **39.3**

6. $x^\circ, 90^\circ, 16.5^\circ$ **73.5**

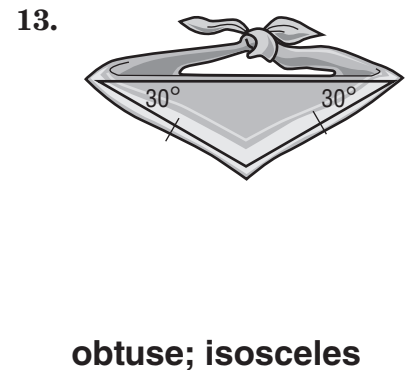
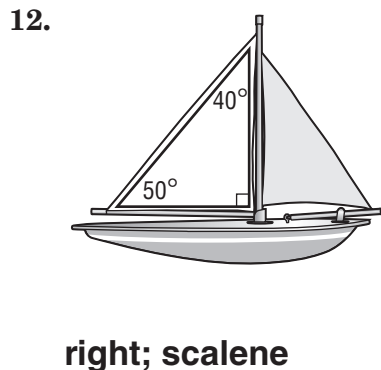
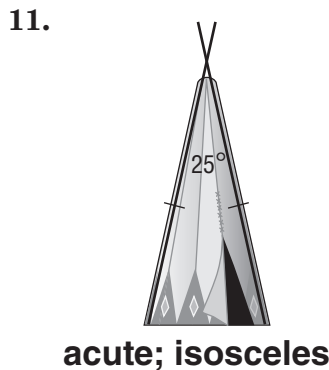
7. Find the third angle of a right triangle if one of the angles measures 24° . **66°**

8. What is the third angle of a right triangle if one of the angles measures 51.1° ? **38.9°**

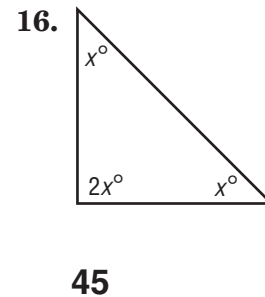
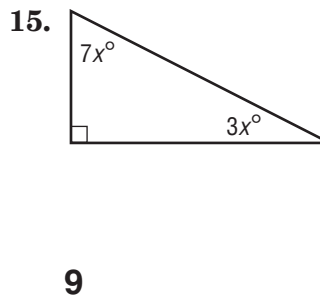
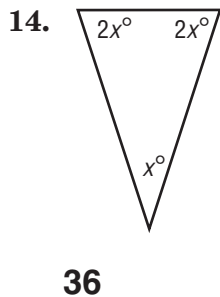
9. **ALGEBRA** Find $m\angle A$ in $\triangle ABC$ if $m\angle B = 38^\circ$ and $m\angle C = 38^\circ$. **104°**

10. **ALGEBRA** In $\triangle XYZ$, $m\angle Z = 113^\circ$ and $m\angle X = 28^\circ$. What is $m\angle Y$? **39°**

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



ALGEBRA Find the value of x in each triangle.



Lesson 3 Problem-Solving Practice

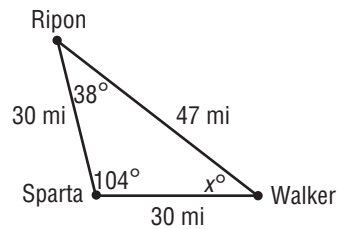
Triangles

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. **acute**

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. **isosceles**

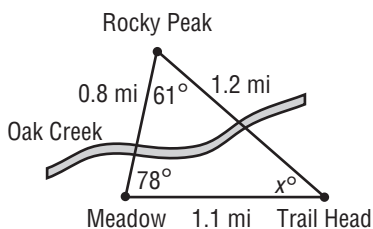
3. CARPENTRY The supports of a wood table are in the shape of a right triangle. Find the third angle of the triangle if the measure of one of the angles is 23° . **67°**

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?



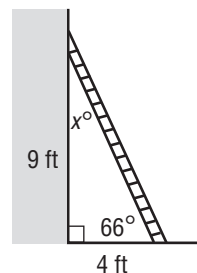
obtuse, isosceles; 38

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?



acute, scalene; 41

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?



right, scalene; 24