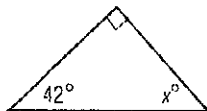


# Homework Practice

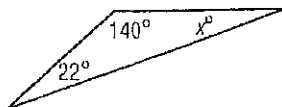
## Triangles

Find the value of  $x$ .

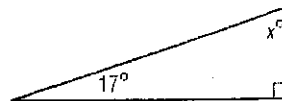
1.



2.



3.



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

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

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

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

7. Find the third angle of a right triangle if one of the angles measures  $24^\circ$ .

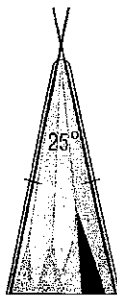
8. What is the third angle of a right triangle if one of the angles measures  $51.1^\circ$ ?

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

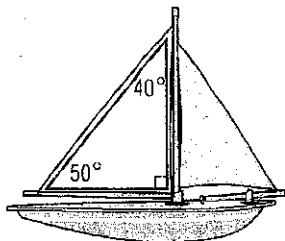
10. ALGEBRA In  $\triangle XYZ$ ,  $m\angle Z = 113^\circ$  and  $m\angle X = 28^\circ$ . What is  $m\angle Y$ ?

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

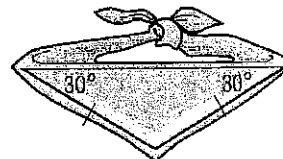
11.



12.

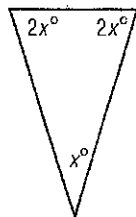


13.

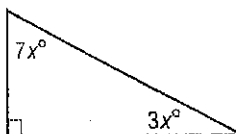


ALGEBRA Find the value of  $x$  in each triangle.

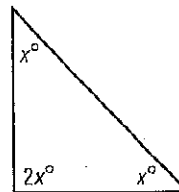
14.



15.



16.



# Problem-Solving Practice

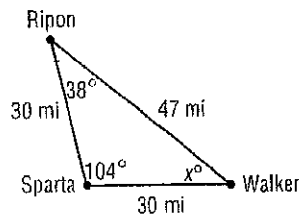
## Triangles

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

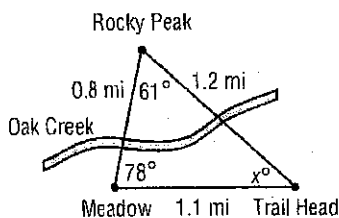
**2. FLAGS** A naval distress signal flag is in the shape of a triangle. The three sides of the triangle measure 5 feet, 9 feet, and 9 feet. Classify the triangle by its sides.

**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  $23^\circ$ .

**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 right triangle. Classify the triangle by its angles and by its sides. What is the value of  $x$  in the figure?

