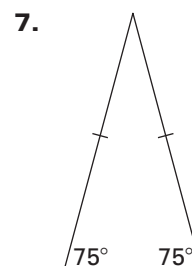
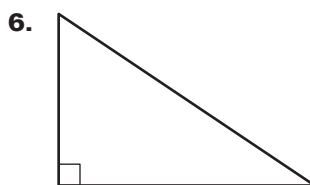
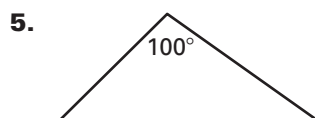


LESSON
4.1
Practice B
For use with pages 216–224
Complete the sentence with *always*, *sometimes*, or *never*.

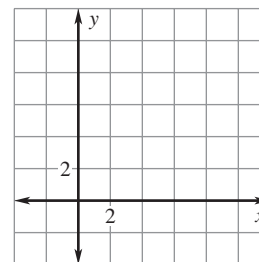
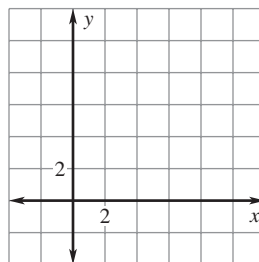
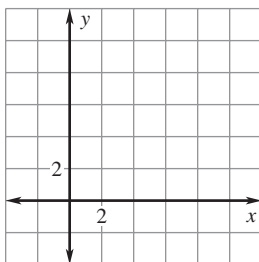
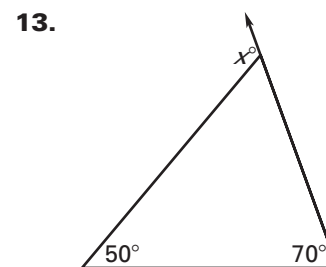
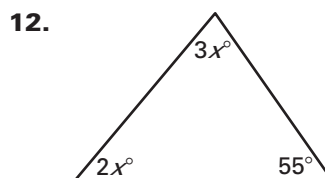
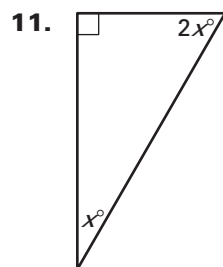
1. An isosceles triangle is ? a right triangle.
2. An obtuse triangle is ? a right triangle.
3. A right triangle is ? an equilateral triangle.
4. A right triangle is ? an isosceles triangle.

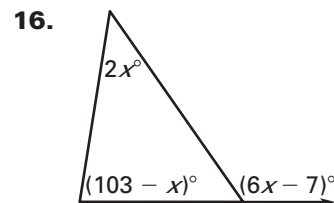
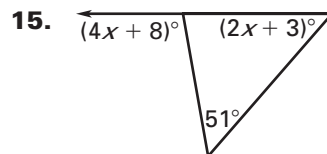
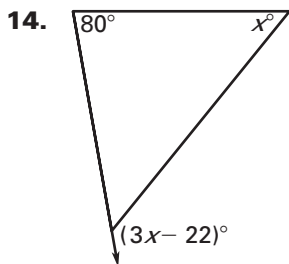
Classify the triangle by its sides and by its angles.

A triangle has the given vertices. Graph the triangle and classify it by its sides. Then determine if it is a right triangle.

8. $A(3, 1), B(3, 4), C(7, 1)$

9. $A(1, 1), B(4, 0), C(8, 5)$

10. $A(2, 2), B(6, 2), C(4, 8)$


Find the value of x . Then classify the triangle by its angles.


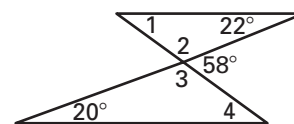
LESSON
4.1**Practice B** *continued*
For use with pages 216–224**Find the measure of the exterior angle shown.****Find the measure of the numbered angle.**

17. $\angle 1$

18. $\angle 2$

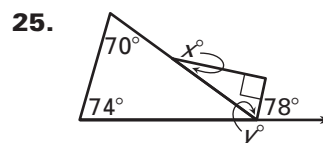
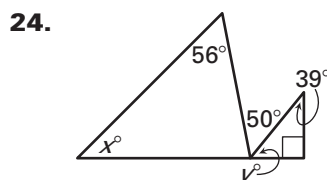
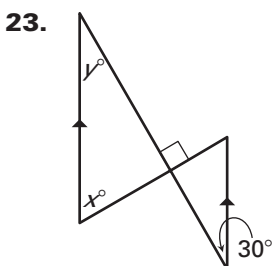
19. $\angle 3$

20. $\angle 4$



21. In $\triangle ABC$, $m\angle A = m\angle B + 30^\circ$ and $m\angle C = m\angle B + 60^\circ$. Find the measure of each angle.

22. In $\triangle ABC$, $m\angle A = 2(m\angle B)$ and $m\angle C = 3(m\angle B)$. Find the measure of each angle.

Find the values of x and y .

26. **Metal Brace** The diagram shows the dimensions of a metal brace used for strengthening a vertical and horizontal wooden junction. Classify the triangle formed by its sides. Then copy the triangle, measure the angles, and classify the triangle by its angles.

