

Name

Practice C

For use with pages 194–201

Classify the triangle by its angles and by its sides.



Sketch the following triangles, if possible. If not possible, state so.

4. A right isosceles triangle

- **5.** An obtuse scalene triangle
- **6.** An acute equilateral triangle
- **7.** A right obtuse triangle

Find the measure of the numbered angle.



The variable expressions represent the angle measures of a triangle. Find the measure of each angle. Then classify the triangle by its angles.

10. $m \angle A = x^{\circ}$ **11.** $m \angle A = (3x - 17)^{\circ}$ **12.** $m \angle A = 2x^{\circ}$ $m \angle B = 2x^{\circ}$ $m \angle B = (x + 40)^{\circ}$ $m \angle B = x^{\circ}$ $m \angle C = 3x^{\circ}$ $m \angle C = (2x - 5)^{\circ}$ $m \angle C = (x - 20)^{\circ}$

In Exercises 13–15, find the measure of the exterior angle shown.



16. In $\triangle ABC$, the measure of $\angle A$ is 42°. The measure of $\angle B$ is 8 less than twice $m \angle A$. What is the measure of the exterior angle at vertex *C*?

Date