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For use with pages 194-201

Classify the triangle by its angles and by its sides.
1.

2.

3


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.
8.

9.


The variable expressions represent the angle measures of a triangle.
Find the measure of each angle. Then classify the triangle by its angles.
10. $m \angle A=x^{\circ}$
$m \angle B=2 x^{\circ}$
$m \angle C=3 x^{\circ}$
11. $m \angle A=(3 x-17)^{\circ}$
$m \angle B=(x+40)^{\circ}$
$m \angle C=(2 x-5)^{\circ}$
12. $m \angle A=2 x^{\circ}$
$m \angle B=x^{\circ}$
$m \angle C=(x-20)^{\circ}$

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

14.

15.

16. In $\triangle A B C$, the measure of $\angle A$ is $42^{\circ}$. The measure of $\angle B$ is 8 less than twice $m \angle A$. What is the measure of the exterior angle at vertex $C$ ?

