Name _____   **Date** _____
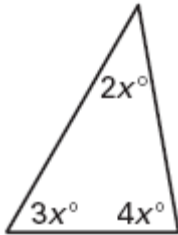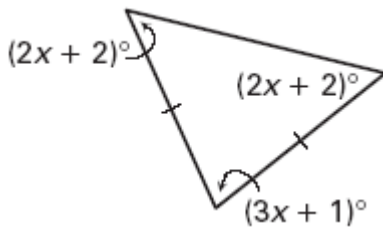
Assignment 27 Lesson 4.1
Show all work for full credit

Classify the triangle by its sides. Then find the value of x and classify the triangle by its angles.
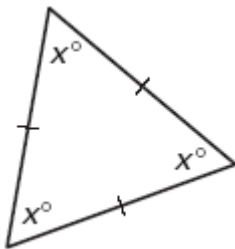
1.
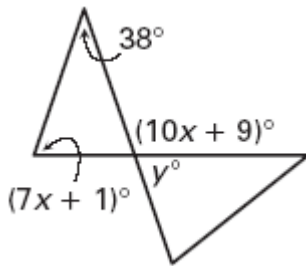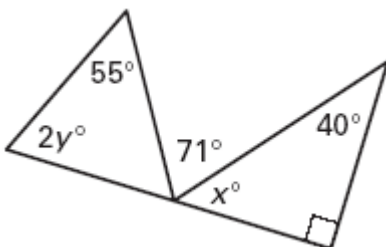

$2x°$

$3x°$ $4x°$

2.

$(2x + 2)°$

$(2x + 2)°$
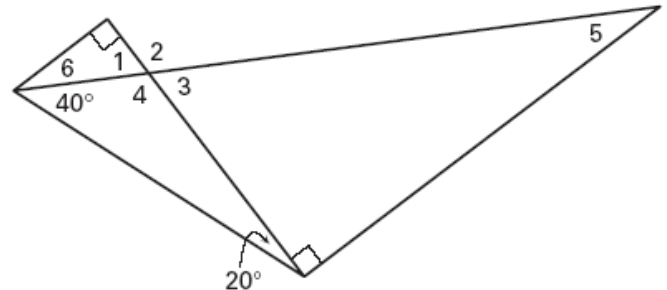
$(3x + 1)°$

3.

$x°$

$x°$

$x°$

Find the value of x and y.

4.

$38°$

$(10x + 9)°$

$y°$

$(7x + 1)°$

5.

$55°$

$2y°$

$71°$ $40°$

$x°$

6.

$(4x − 1)°$

$31°$

$65°$ $2y°$

7.

$32°$

$x°$

$27°$ $y°$
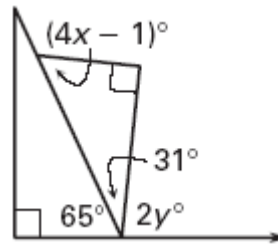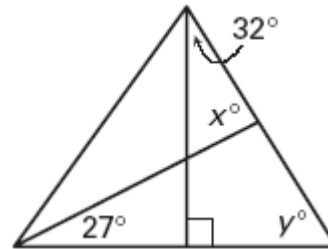
Find the measure of the numbered angle

6 1 2 5

$40°$ 4 3

$20°$

8. $m\angle 1$
9. $m\angle 2$
10. $m\angle 3$
11. $m\angle 4$
12. $m\angle 5$
13. $m\angle 6$
14. Angle Measures The measure of one interior angle of a triangle is 32°. The other interior angles are congruent. Find their measure.

15. In $\triangle ABC$, $m\angle A = 42°$. The measure of $\angle B$ is five times the measure of $\angle C$. Find $m\angle B$ and $m\angle C$.