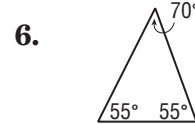
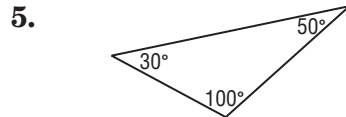
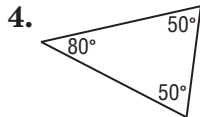
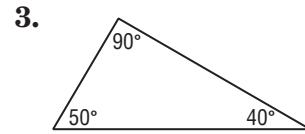
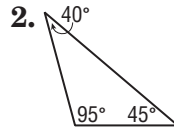
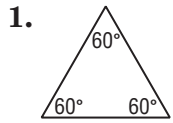


4-1 and 4-2 Review Worksheet

4-1 Classifying Triangles

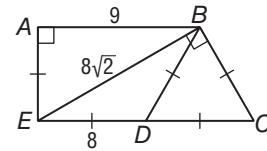
Classify each triangle as *acute*, *equiangular*, *obtuse*, or *right*.



Classify each triangle as *equilateral*, *isosceles*, or *scalene*.

7. $\triangle ABE$

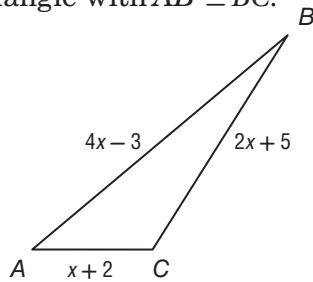
8. $\triangle EDB$



9. $\triangle EBC$

10. $\triangle DBC$

11. **ALGEBRA** Find x and the length of each side if $\triangle ABC$ is an isosceles triangle with $\overline{AB} \cong \overline{BC}$.



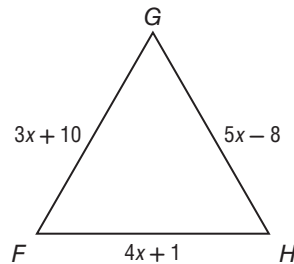
$x =$ _____

$AB =$ _____

$BC =$ _____

$AC =$ _____

12. **ALGEBRA** Find x and the length of each side if $\triangle FGH$ is an equilateral triangle.



$x =$ _____

$FG =$ _____

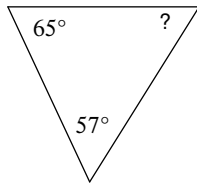
$GH =$ _____

$FH =$ _____

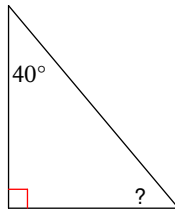
4-1 Triangle Angle Sum

Find each missing angle.

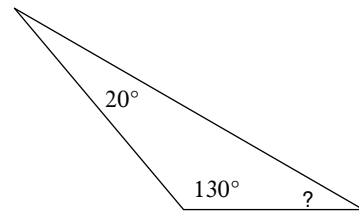
13.



14.

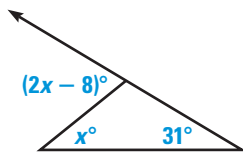


15.

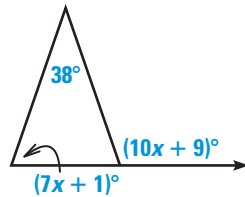


Find the value of x .

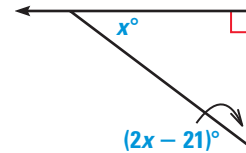
16.



17.



18.



19. Find each numbered angle.

$m\angle 1$

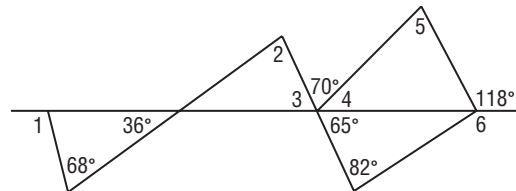
$m\angle 4$

$m\angle 3$

$m\angle 2$

$m\angle 5$

$m\angle 6$



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

20.

$$m\angle A = x^\circ$$

$$m\angle B = 2x^\circ$$

$$m\angle C = (2x + 15)^\circ$$

21.

$$m\angle R = x^\circ$$

$$m\angle S = 7x^\circ$$

$$m\angle T = x^\circ$$

22.

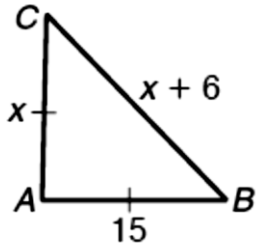
$$m\angle W = (x - 15)^\circ$$

$$m\angle Y = (2x - 165)^\circ$$

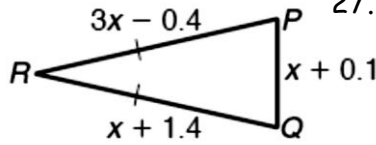
$$m\angle Z = 90^\circ$$

23. An isosceles triangle has _____ congruent sides.
24. An _____ triangle has three congruent sides.
25. A _____ triangle has no congruent sides.
26. If a triangle is isosceles, then is it also equilateral? EXPLAIN your answer.

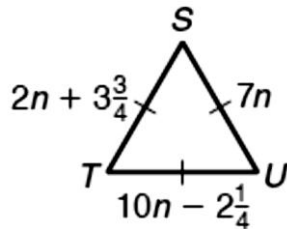
Find the side lengths of each triangle.



26. $AB =$ _____
 $BC =$ _____
 $AC =$ _____



27. $RP =$ _____
 $PQ =$ _____
 $RQ =$ _____



28. $ST =$ _____
 $SU =$ _____
 $TU =$ _____



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"IT LOOKS LIKE EVERYONE WILL BE GETTING WHAT THEY WANT THIS YEAR...SOMEBODY POSTED MY CREDIT CARD NUMBER ON THE INTERNET!"