

Objetivo:

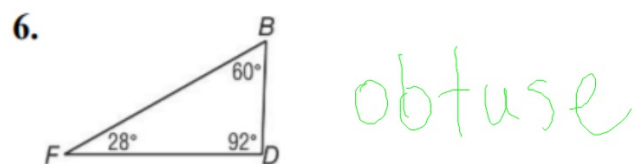
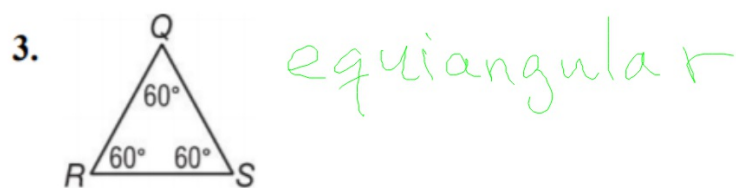
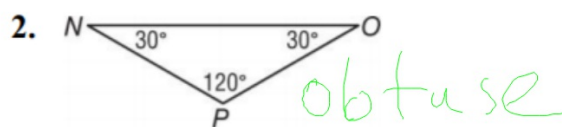
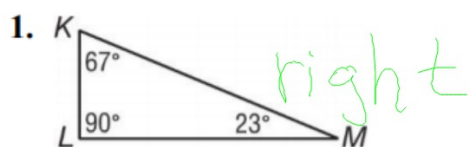
Identify and classify triangles by angle measures.

Identify and classify triangles by side measures.

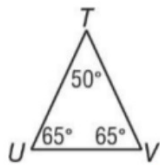
- If *all three* of the angles of a triangle are acute angles, then the triangle is an **acute triangle**.
- If *all three* angles of an acute triangle are congruent, then the triangle is an **equiangular triangle**.
- If *one* of the angles of a triangle is an obtuse angle, then the triangle is an **obtuse triangle**.
- If *one* of the angles of a triangle is a right angle, then the triangle is a **right triangle**.

acute, equiangular, obtuse, right

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

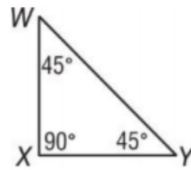


4.



acute

5.

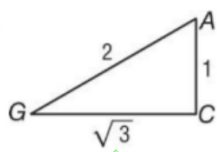


right

- If *all three* sides of a triangle are congruent, then the triangle is an **equilateral triangle**.
- If *at least two* sides of a triangle are congruent, then the triangle is an **isosceles triangle**. Equilateral triangles also be considered isosceles.
- If *no two* sides of a triangle are congruent, then the triangle is a **scalene triangle**.

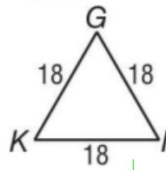
Classify each triangle as *equilateral*, *isosceles*, or *scalene*.

1.



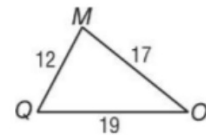
scalene

2.



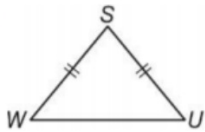
equilateral

3.



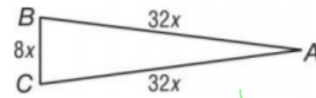
scalene

4.



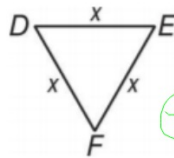
Isosceles

5.



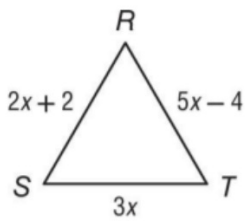
Isosceles

6.



equilateral

7. ALGEBRA Find x and the length of each side if $\triangle RST$ is an equilateral triangle.



$$2x+2 = 5x-4 = 3x$$

$$2x+2 = 3x$$

$$\begin{array}{r} -2x \\ \hline 2 = x \end{array}$$

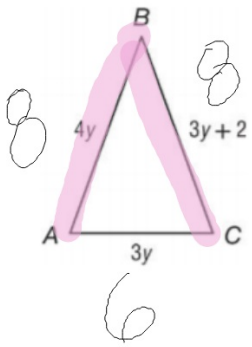
$$2 = x$$

$$\begin{array}{r} 2x+2 = 3x \\ -2x \quad -2x \\ \hline 2 = x \end{array}$$

$$2 = x$$

$$x = 2$$

8. ALGEBRA Find y and the length of each side if $\triangle ABC$ is isosceles with $AB = BC$.



$$4y = 3y+2$$

$$\begin{array}{r} -3y \\ \hline y = 2 \end{array}$$

$$y = 2$$

