GEOMETRY

CHAPTER 6

1ro SECONDARY

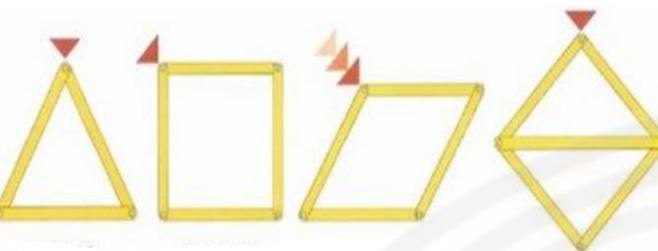
Clasificación de los triángulos











La forma en triángulo convierte en rígida a una estructura



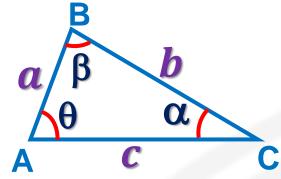


CLASIFICACIÓN DE LOS TRIÁNGULOS



1. Por las longitudes de sus lados.

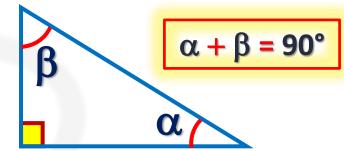




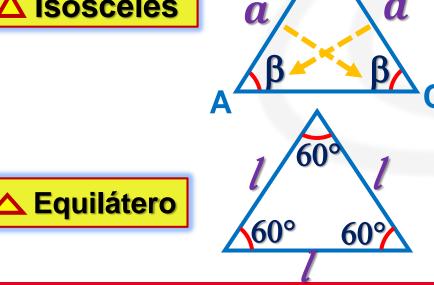
a



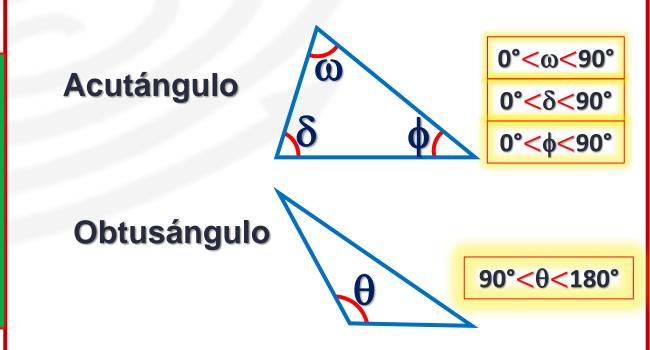






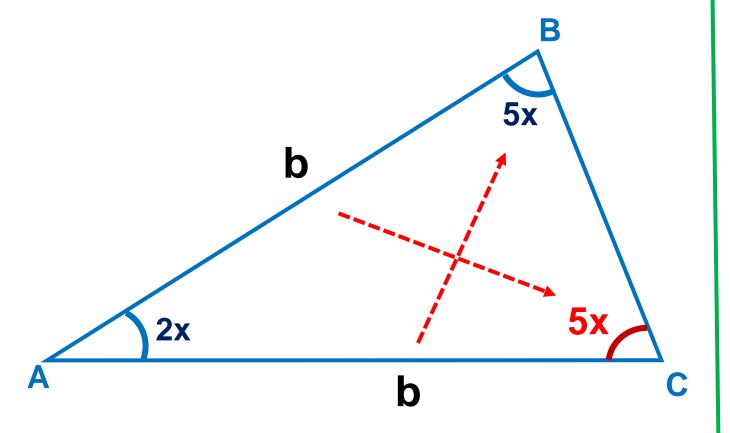


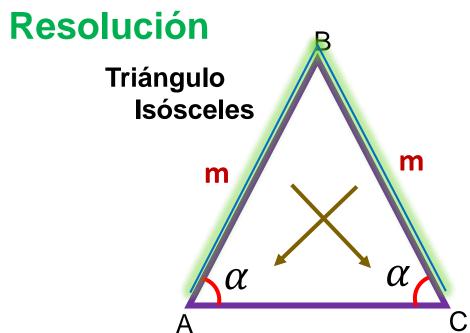






1. En el gráfico, AB = AC. Halle el valor de x.





Piden: x

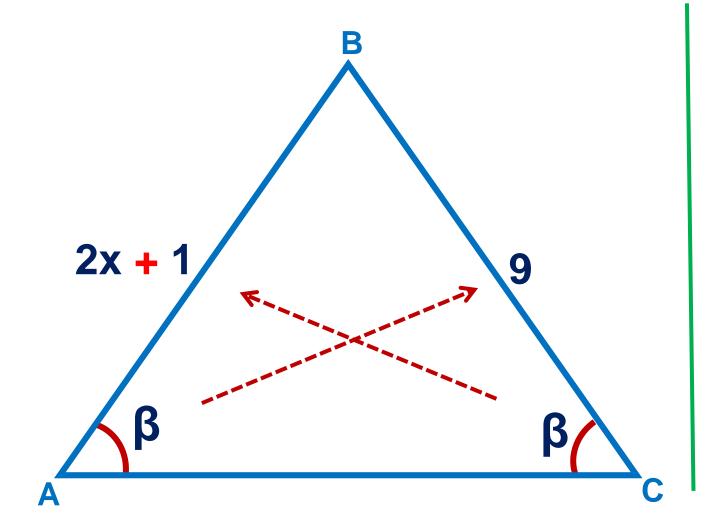
$$2x + 5x + 5x = 180^{\circ}$$

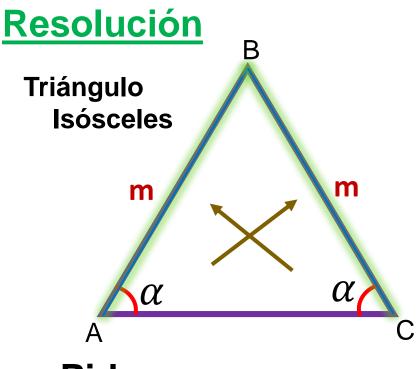
 $12x = 180^{\circ}$

$$x = 15^{\circ}$$



2. Halle el valor de x.





Piden: x

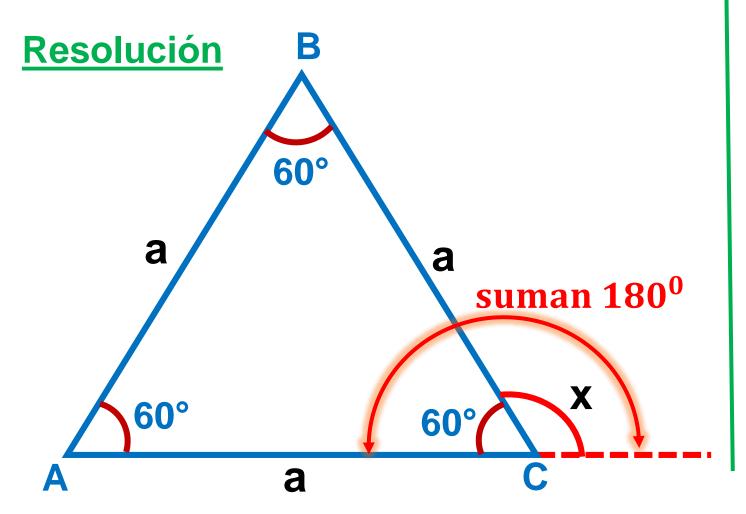
$$2x + 1 = 9$$

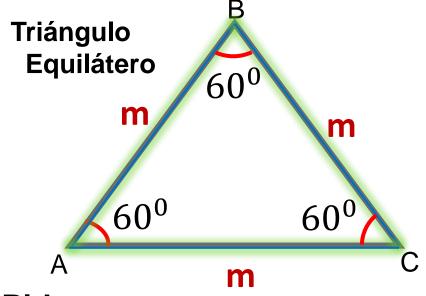
$$2x = 8$$



3. Se tiene un triángulo equilátero ABC, donde el ángulo exterior de

C mide x. Halle el valor de x.





Piden: x

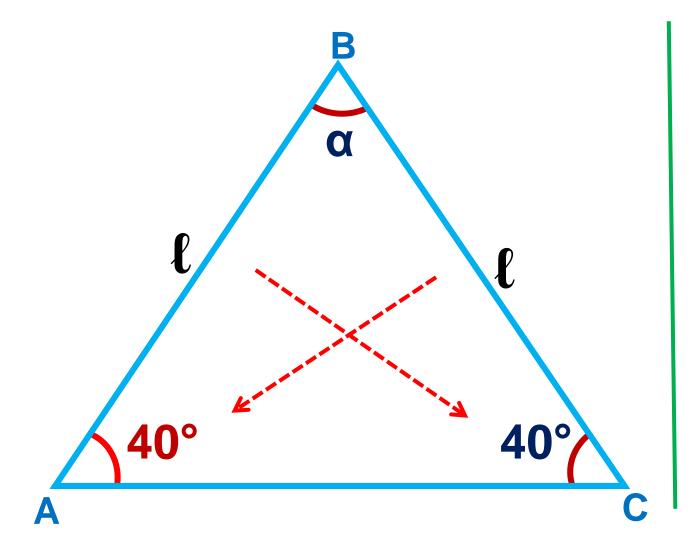
En el vértice C.

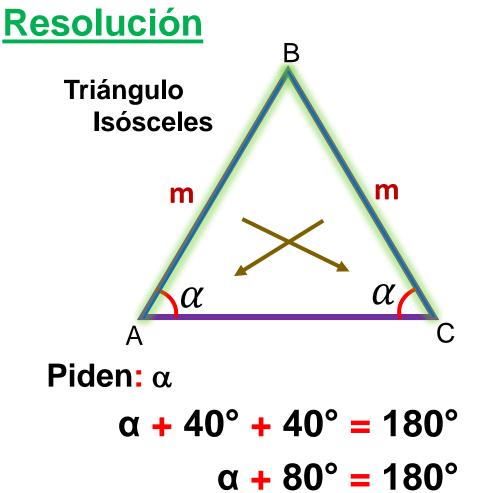
$$x + 60^{\circ} = 180^{\circ}$$

$$x = 120^{\circ}$$



4. Halle el valor de α .

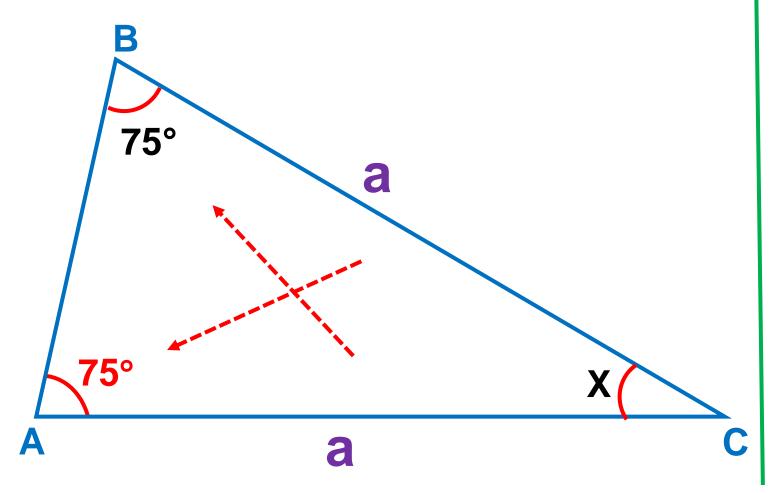




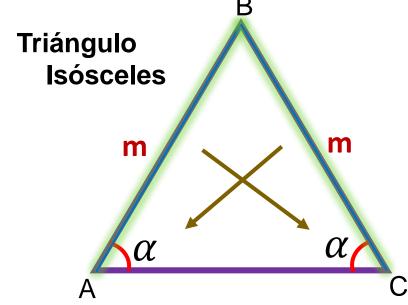
$$\alpha = 100^{\circ}$$



5. Halle el valor de x.



Resolución



Piden: x

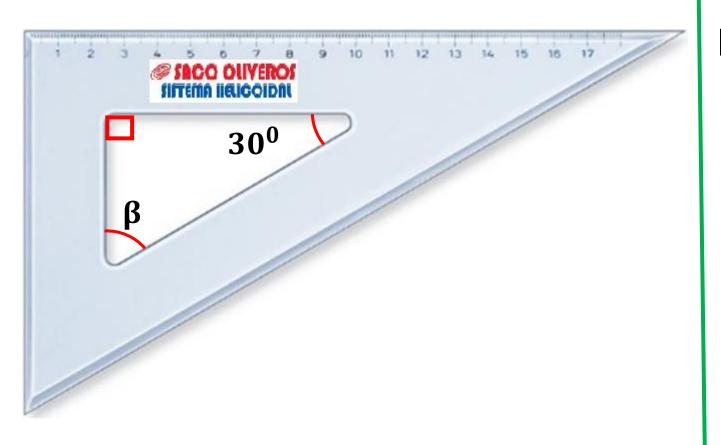
$$x + 75^{\circ} + 75^{\circ} = 180^{\circ}$$

$$x + 150^{\circ} = 180^{\circ}$$

$$x = 30^{\circ}$$

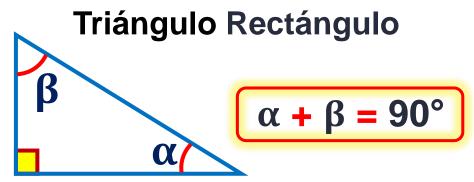


6. Se muestra un escuadra. Halle el valor de β.



Resolución

Piden: β



$$\beta + 30^{\circ} = 90^{\circ}$$

$$\beta = 60^{\circ}$$



7. Tres alumnos con un lapicero cada uno (de la misma marca y modelo) unen sus lapiceros por los extremos. ¿Qué clase de triángulo formarán sus lapiceros?



