

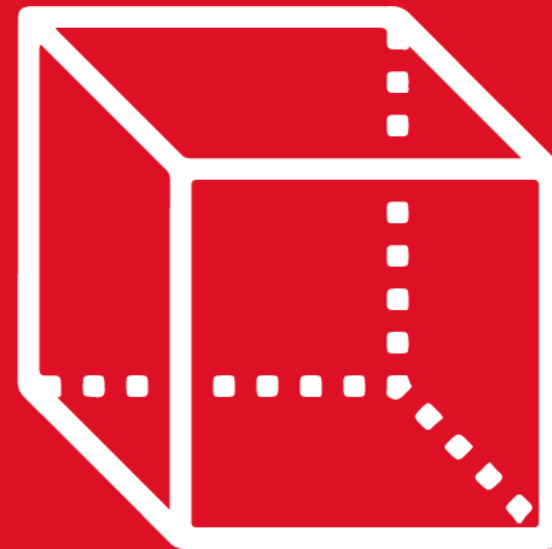
GEOMETRÍA

Capítulo 3

1st

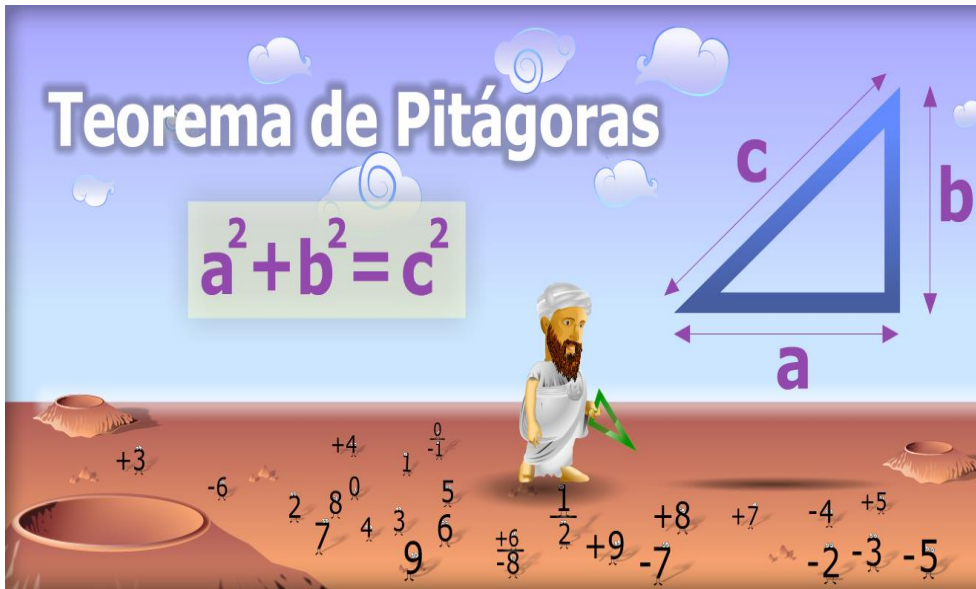
SECONDARY

Triángulos Rectángulos Notables

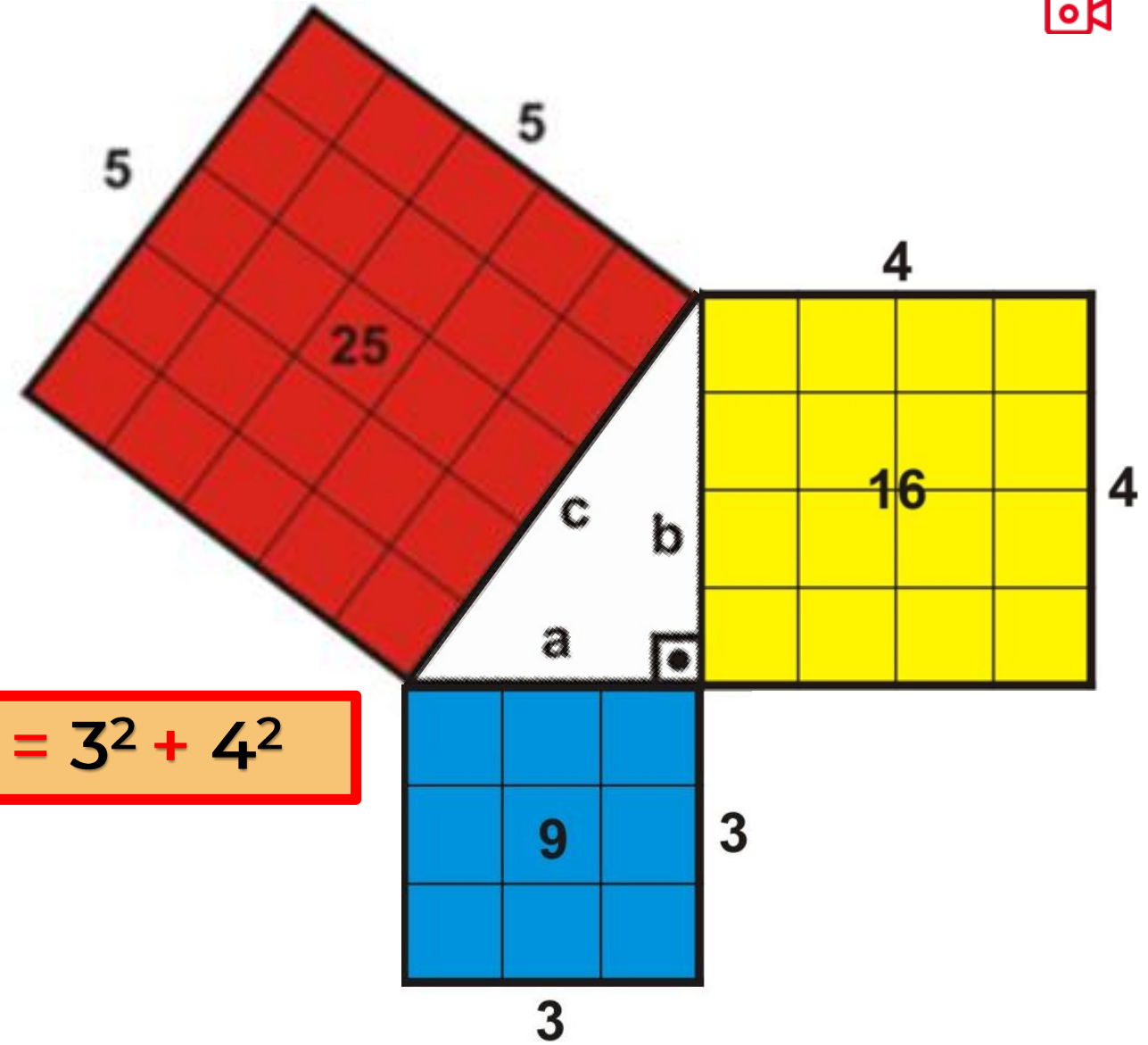


Ses II

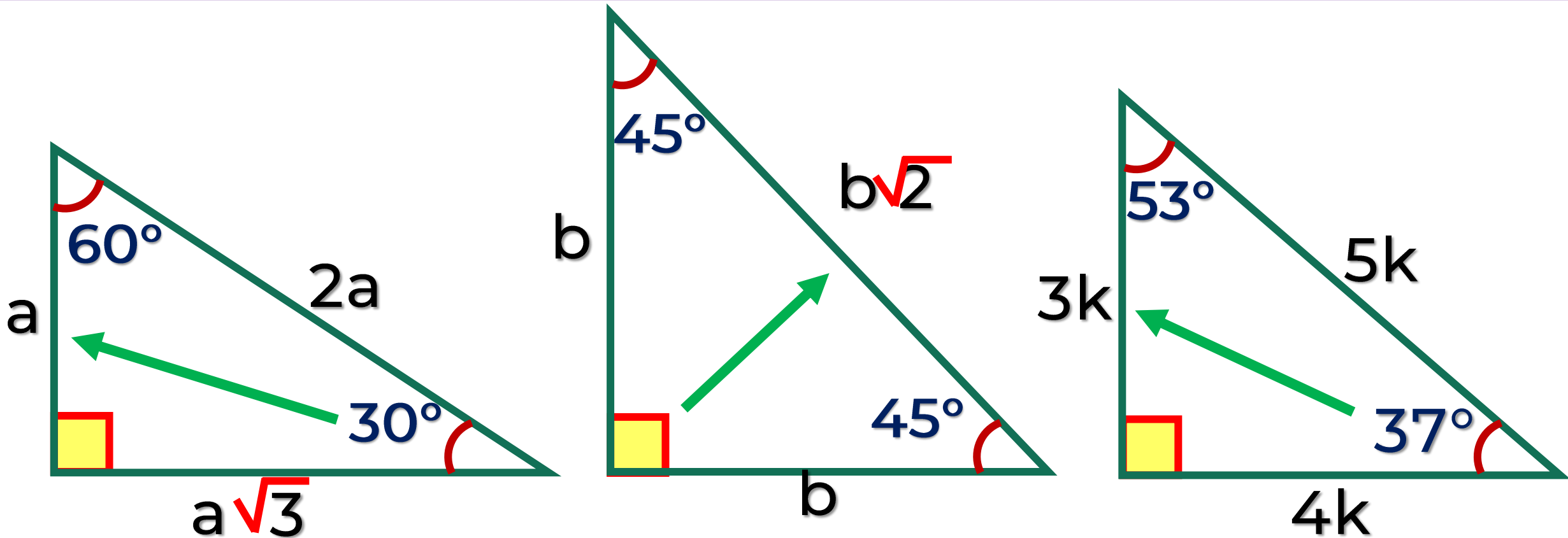
 **SACO OLIVEROS**



$$5^2 = 3^2 + 4^2$$

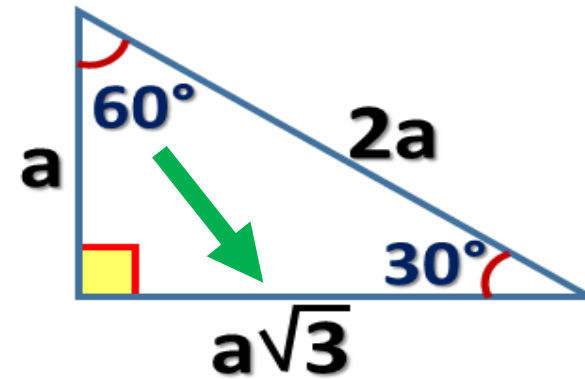
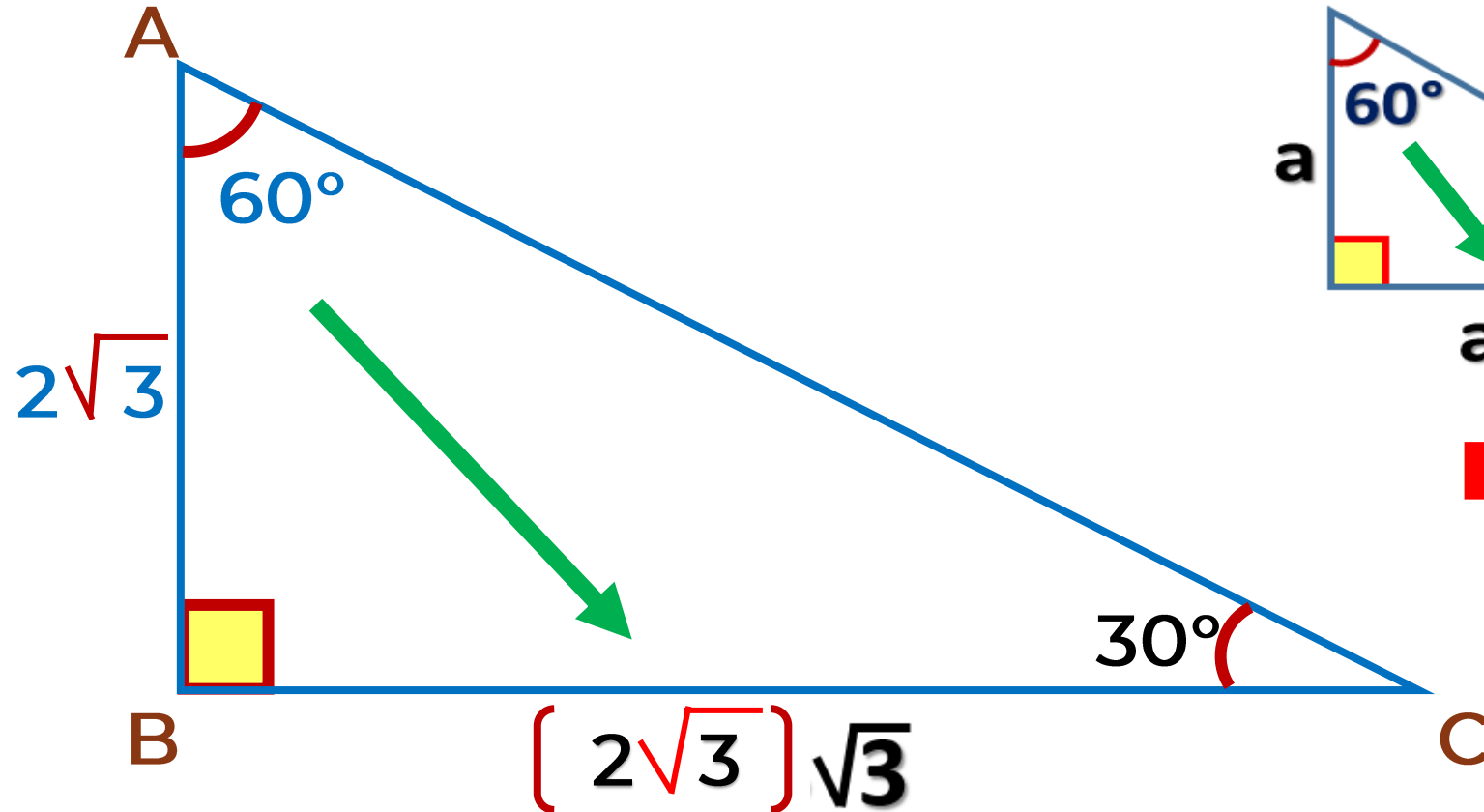


TRIÁNGULOS RECTÁNGULOS NOTABLES





1. Se tiene un triángulo ABC, recto en B. Si $AB = 2\sqrt{3}$ m y $m\angle BAC = 60^\circ$, halle BC.



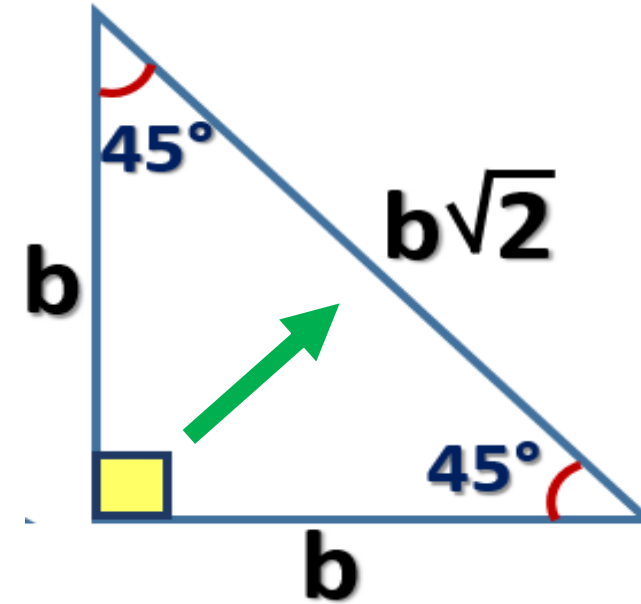
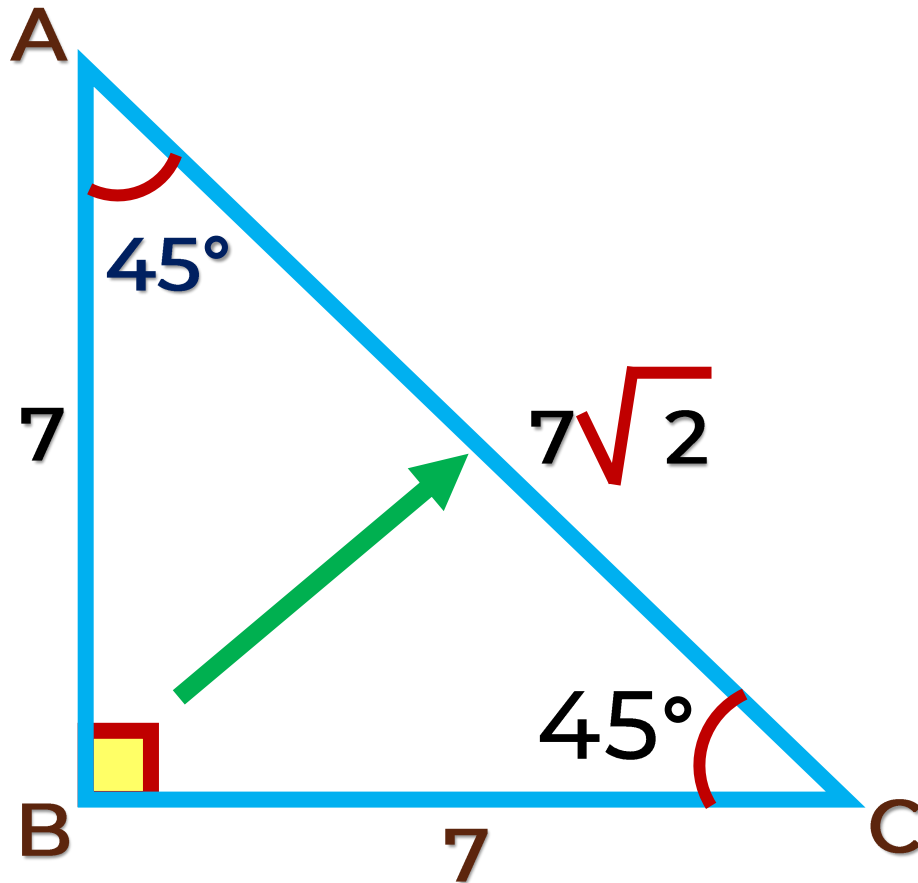
$$\Rightarrow BC = (2\sqrt{3})\sqrt{3}$$

$$BC = 2.3$$

$$BC = 6$$



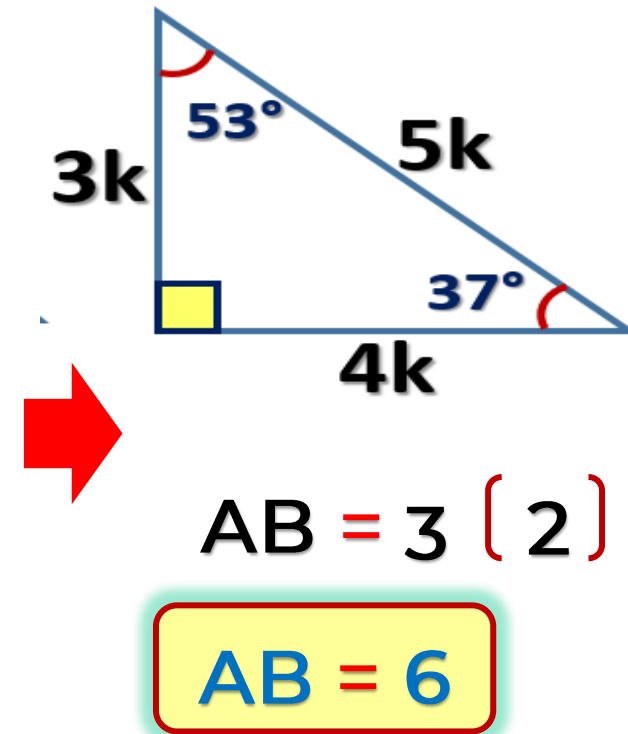
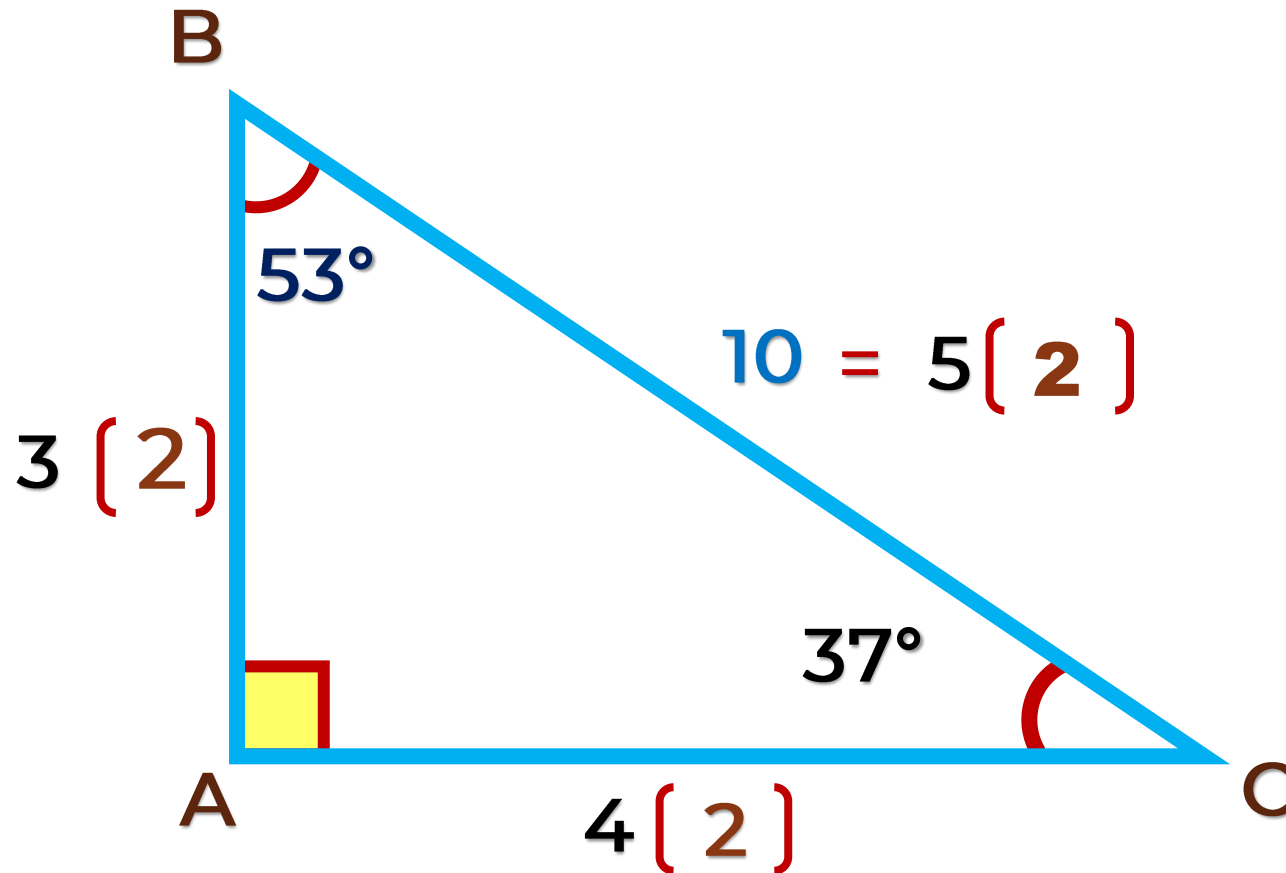
2. En el gráfico, halle AC.



➡ $AC = 7\sqrt{2}$

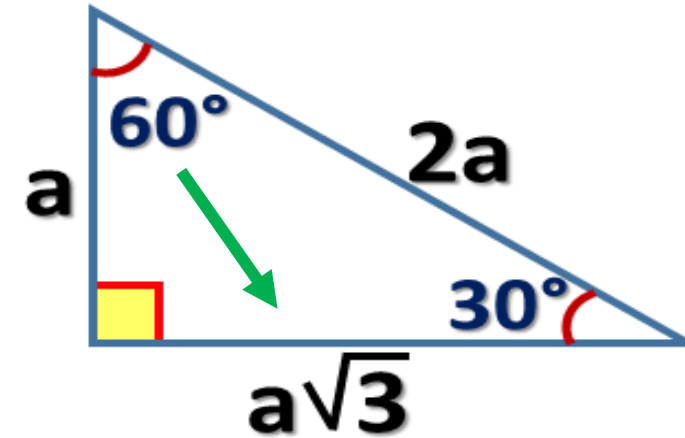
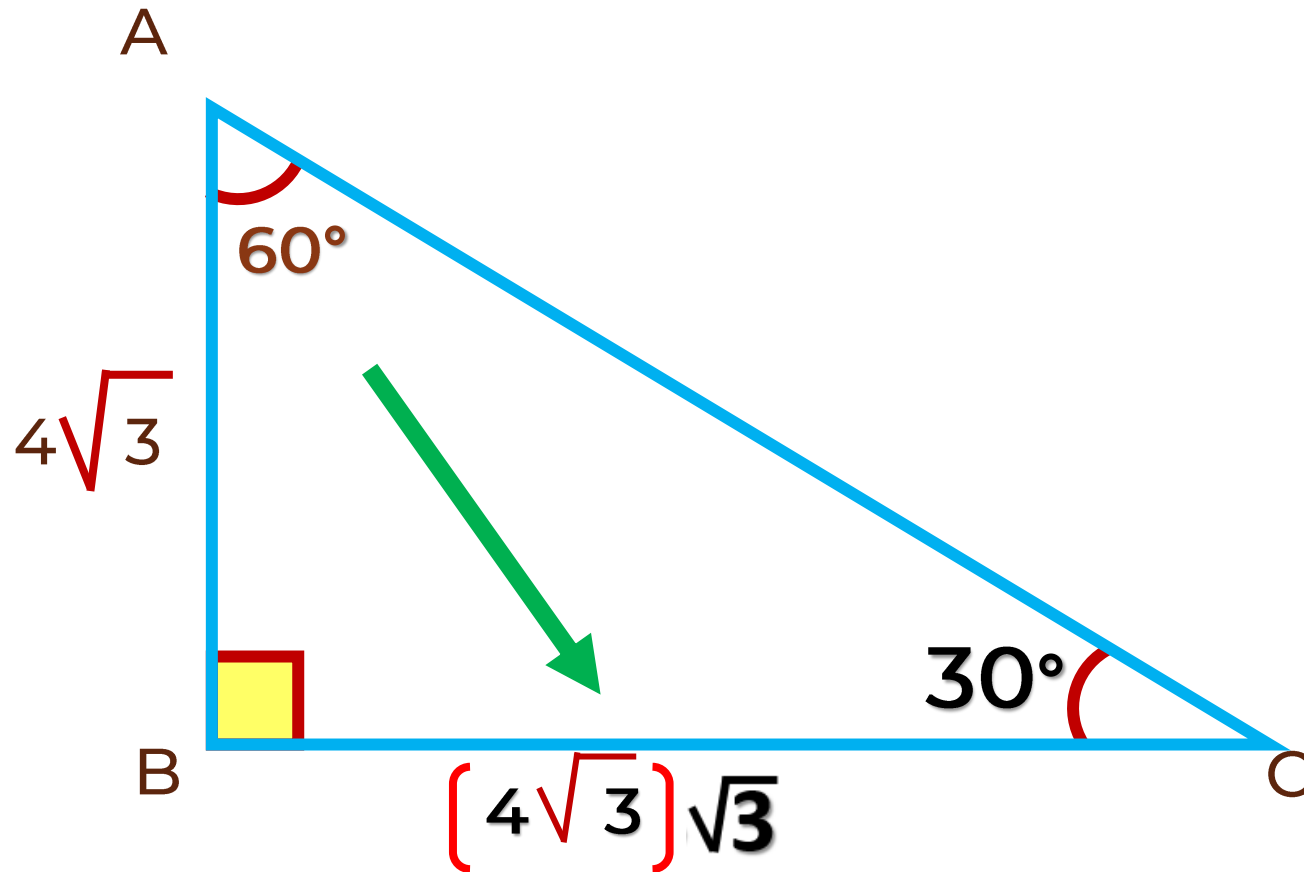


3. La longitud de la hipotenusa de un triángulo rectángulo es 10 y un ángulo agudo mide 53° . Halle la longitud del cateto menor.





4. En el gráfico, halle BC.

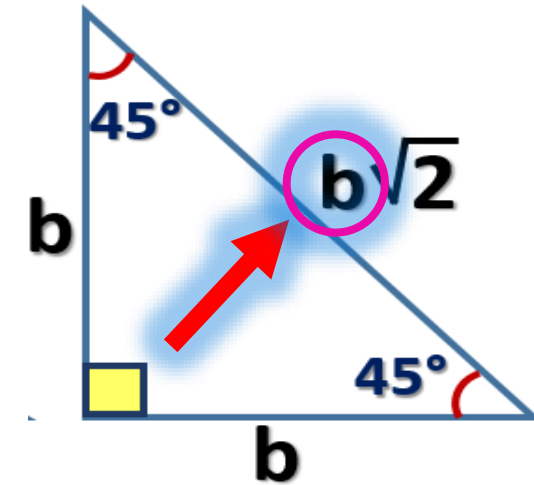
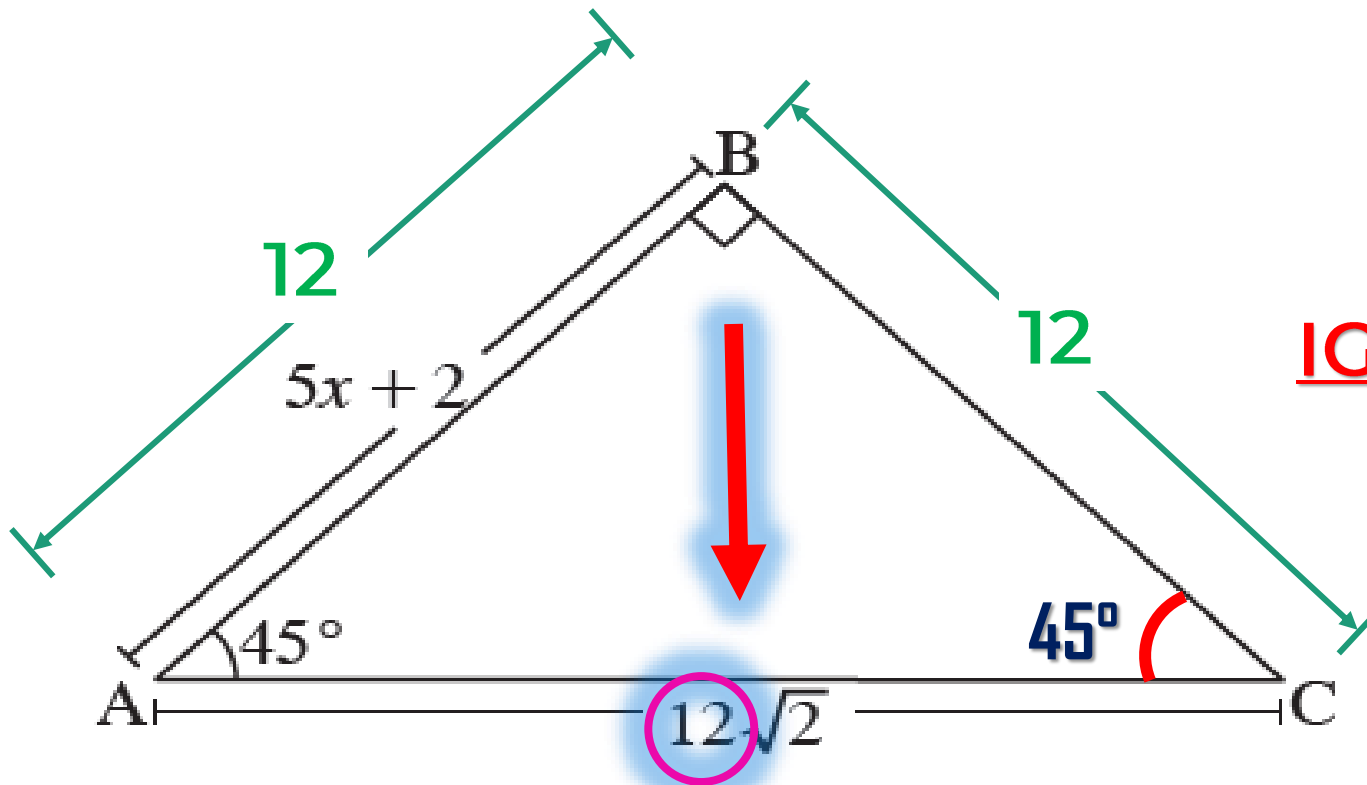


$$\begin{aligned} \text{BC} &= 4\sqrt{3}(\sqrt{3}) \\ \text{BC} &= 4 \cdot 3 \end{aligned}$$

$$\text{BC} = 12$$



5. Halle el valor de x.



IGUALANDO

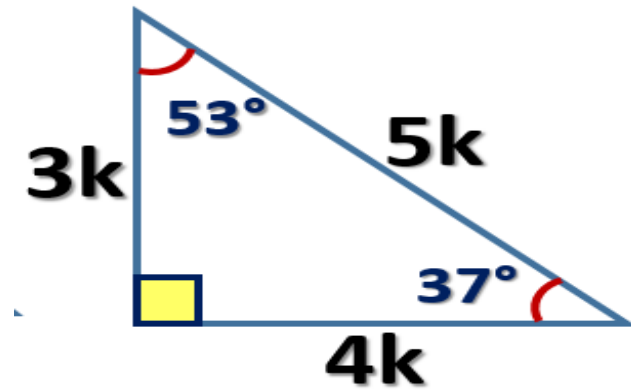
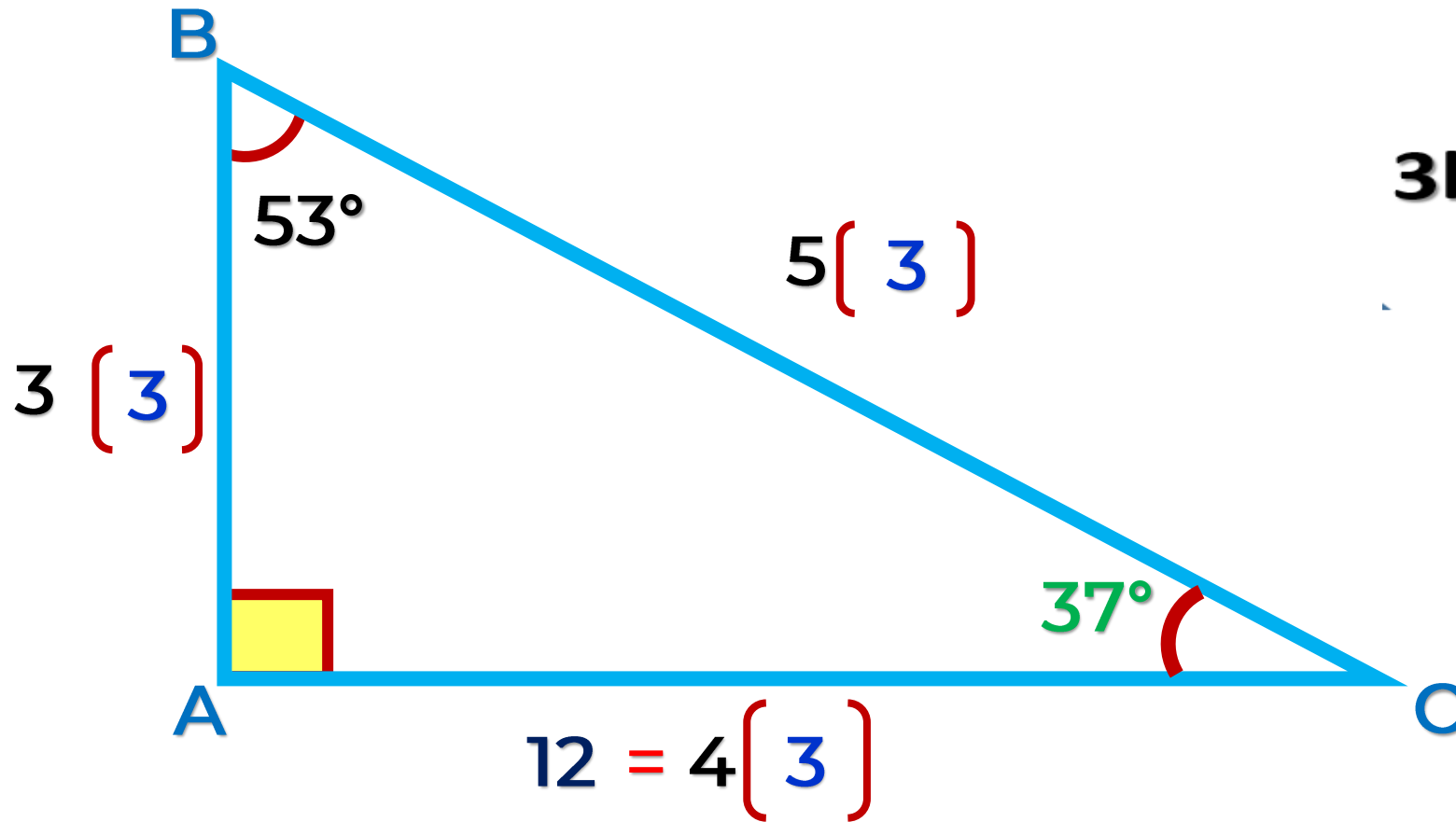
$$5x + 2 = 12$$

$$5x = 10$$

$$x = 2$$



6. En el gráfico, halle AB.

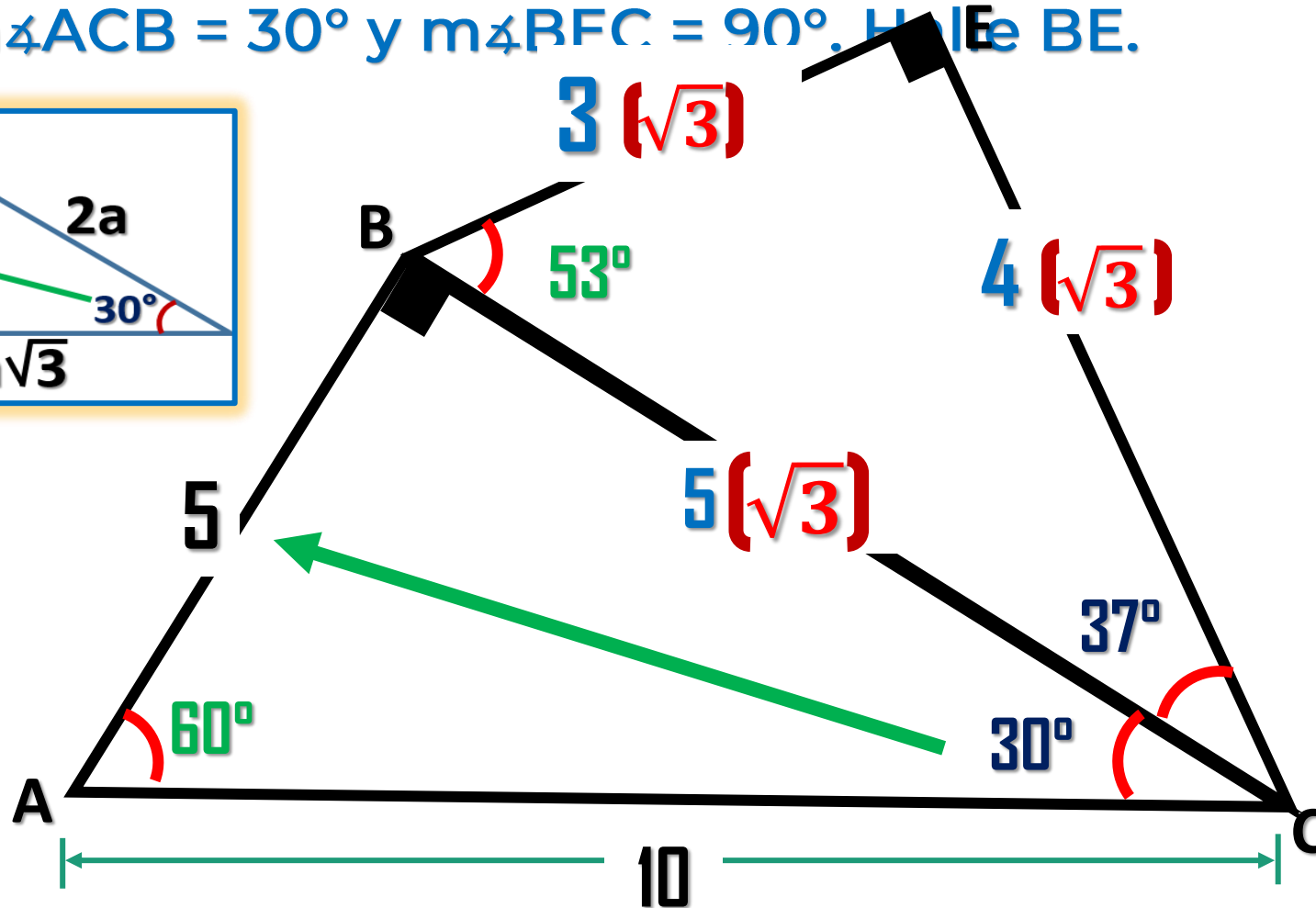
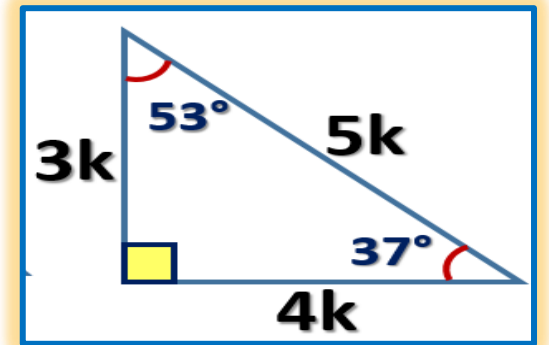
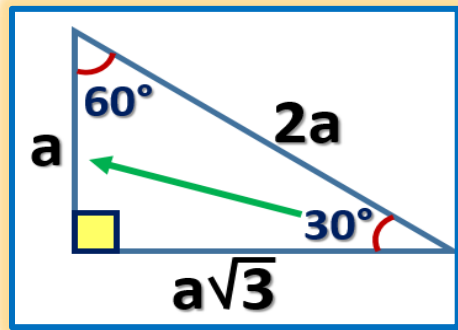


➔ $AB = 3(3)$

$AB = 9$



7. La hipotenusa de un triángulo rectángulo ABC, recto en B, mide 10m. Se ubica un punto E exterior relativo a BC, tal que $m\angle BCE = 37^\circ$, $m\angle ACB = 30^\circ$ y $m\angle BEC = 90^\circ$. Halle BE.



$$BE = 3\sqrt{3}m$$

8. En la figura se muestra una escalera de 5 m, apoyada sobre una pared.

Si el punto A resbala 1 m,
¿cuánto resbala el punto B?

