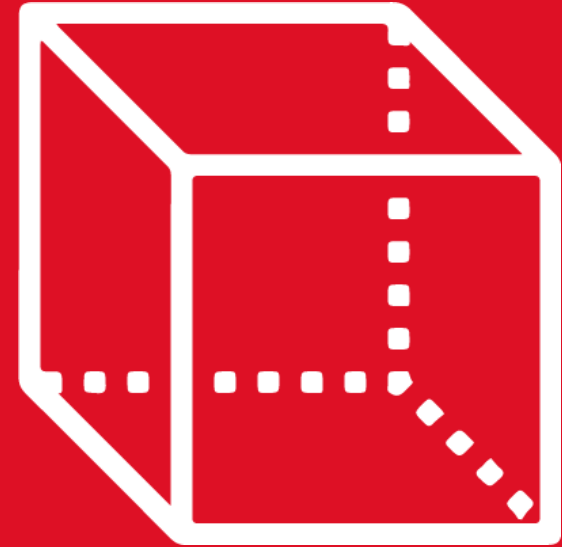


GEOMETRÍA

Capítulo 3

1st

SECONDARY



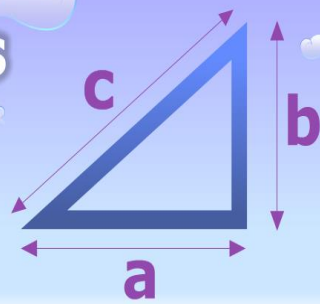
 **SACO OLIVEROS**


Triángulos Rectángulos Notables



Teorema de Pitágoras

$$a^2 + b^2 = c^2$$

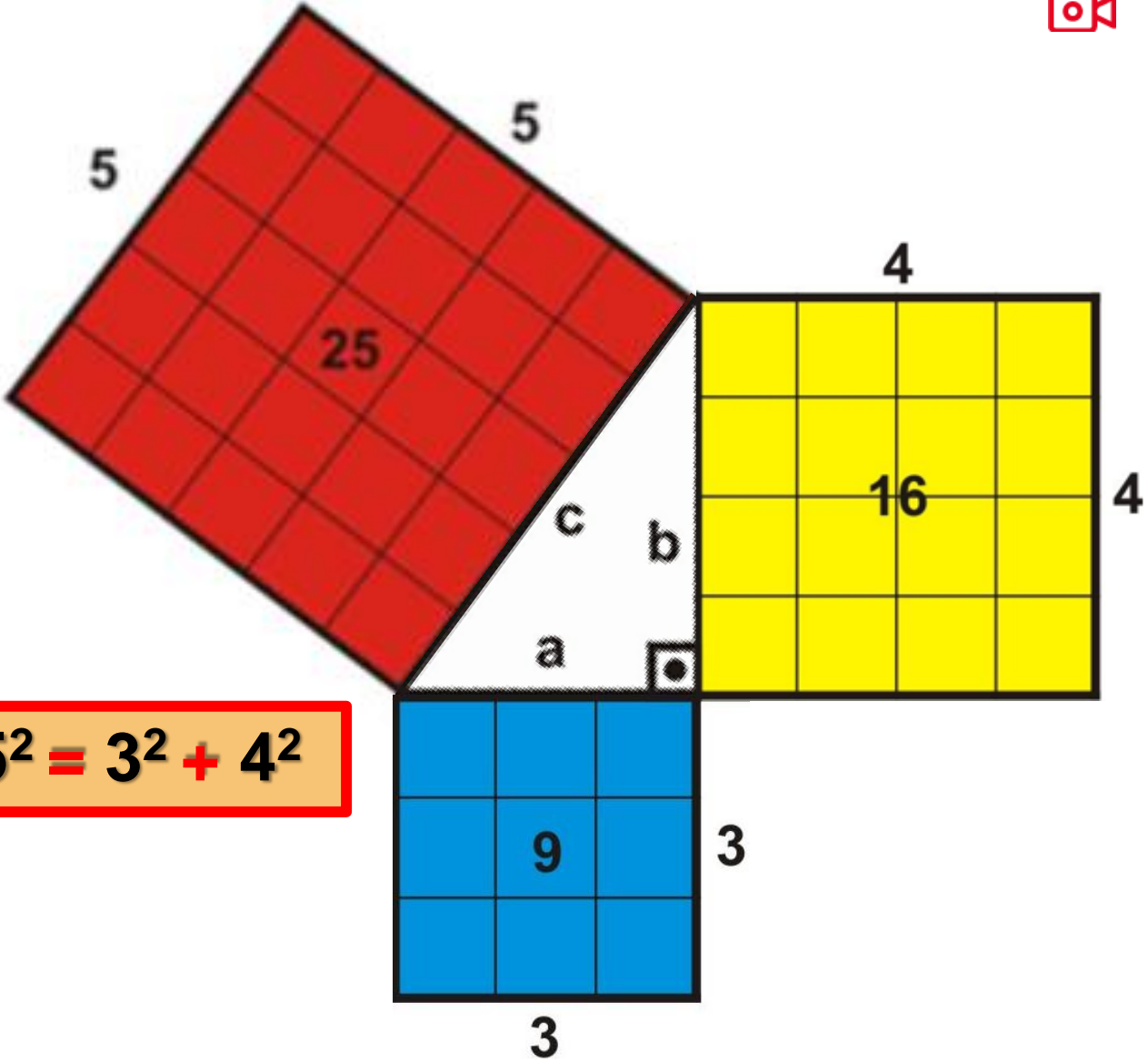




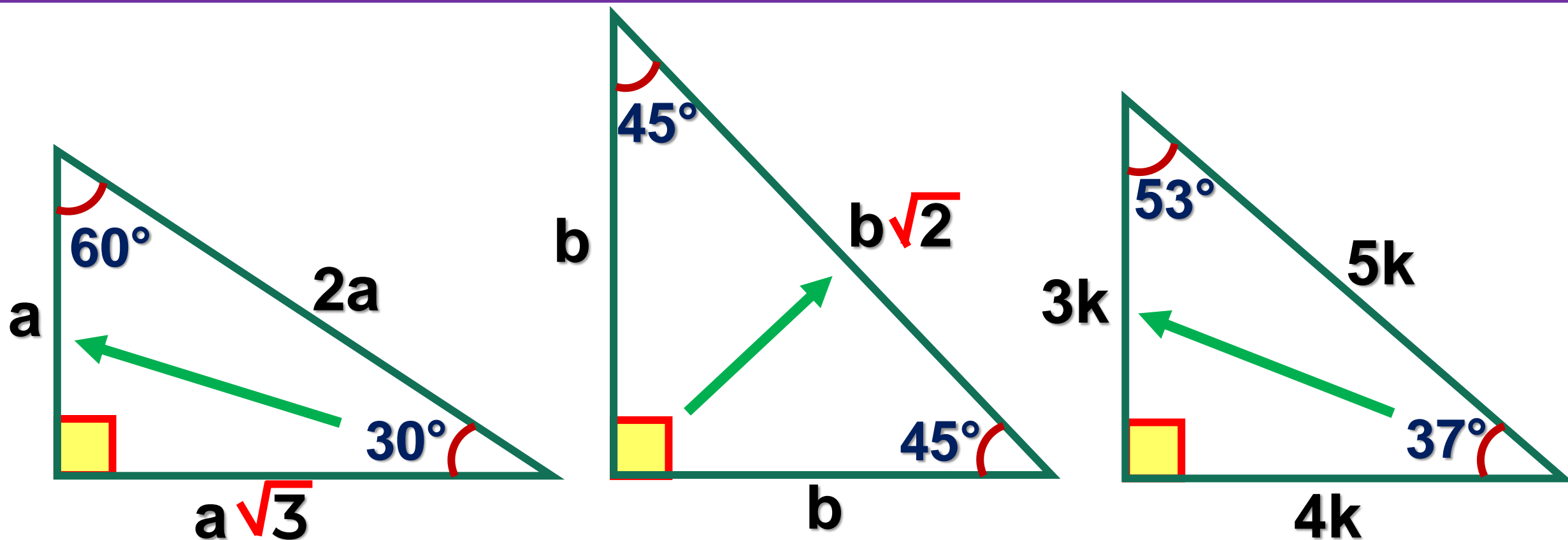
+3
-6
2
7
8
4
0
3
9
+4
1
5
6
-1
1/2
+6
-8
+9
+8
-7
+7
-4
-2
+5
-3
-5



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

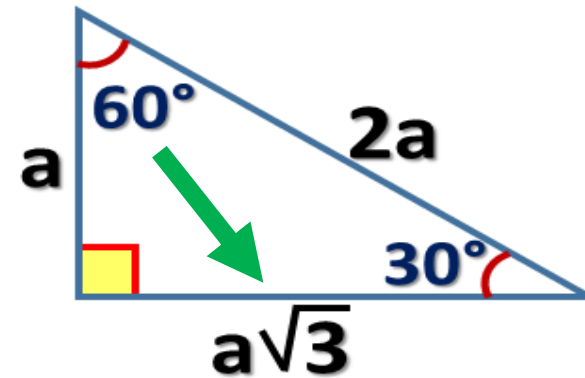
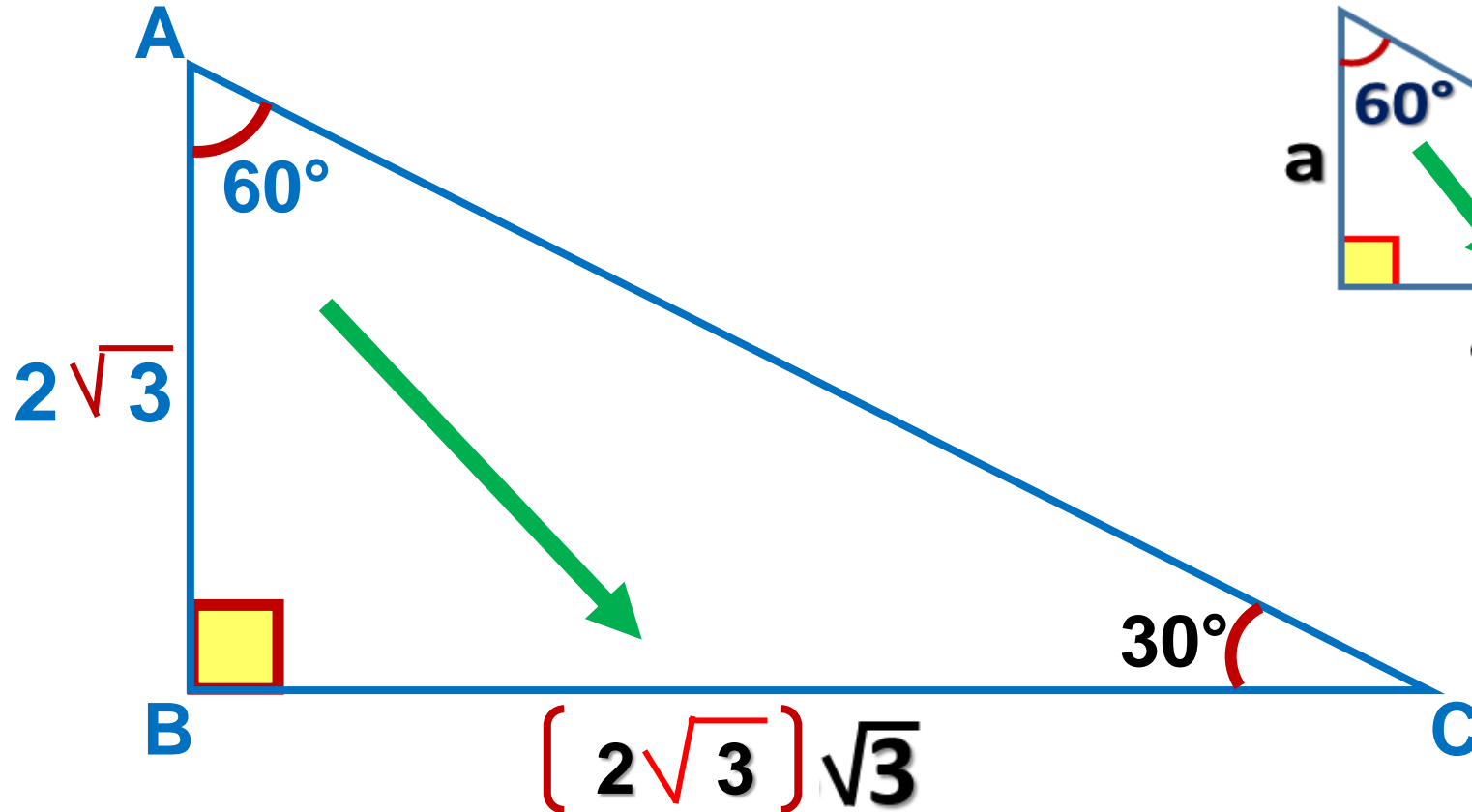


TRIÁNGULOS RECTÁNGULOS NOTABLES





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



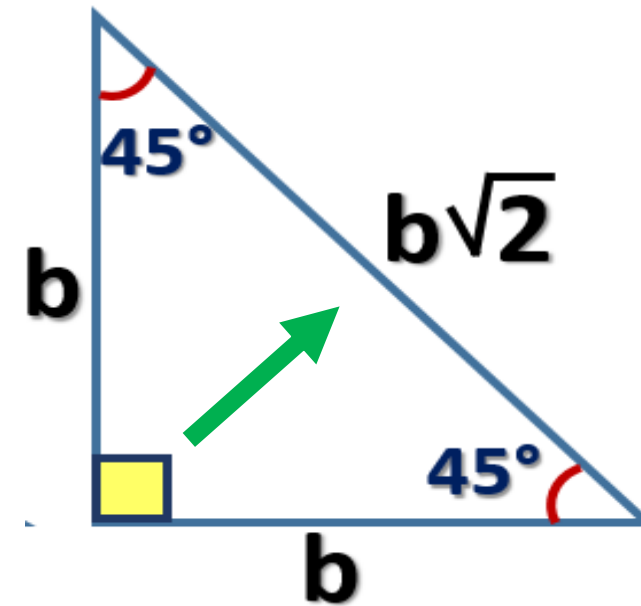
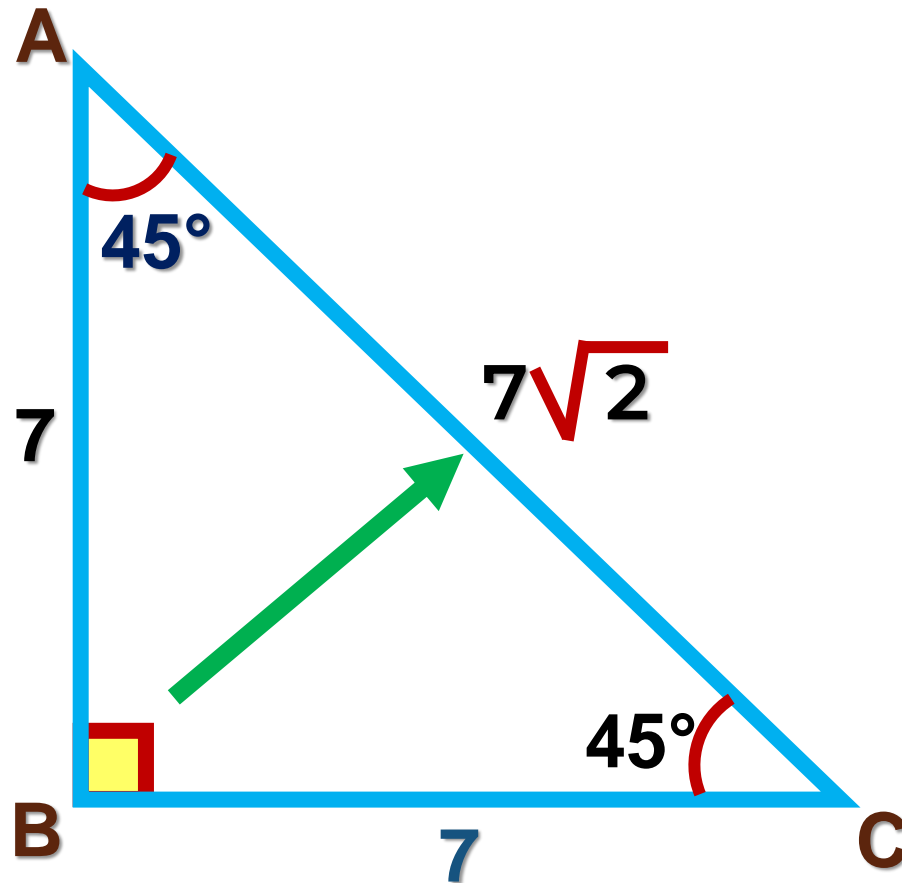
$$BC = (2\sqrt{3})\sqrt{3}$$

$$BC = 2 \cdot 3$$

$$BC = 6\text{m}$$



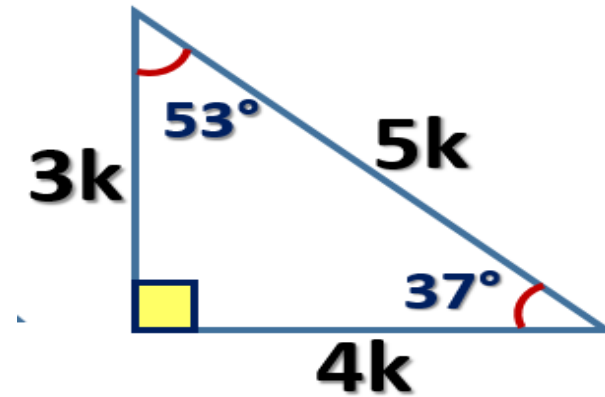
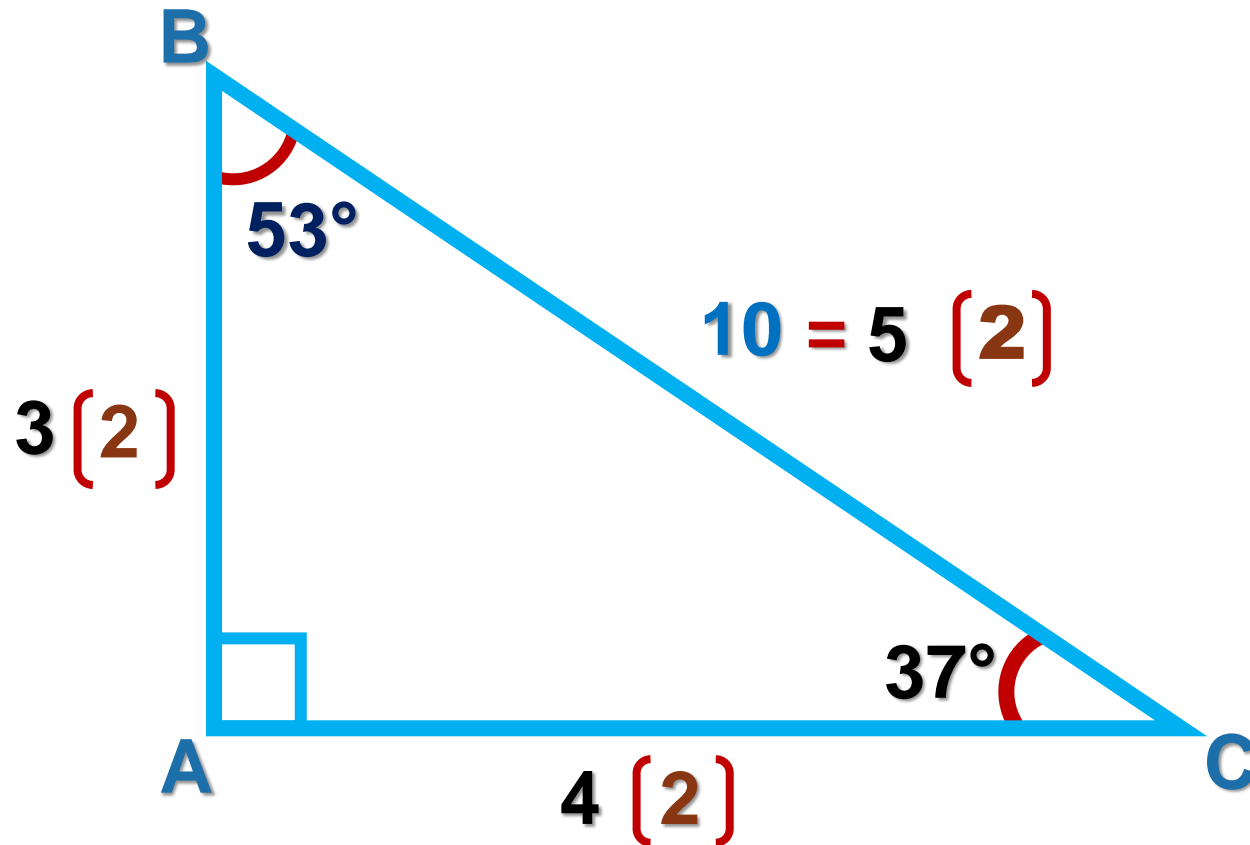
2. En el gráfico, halle AC.



$$AC = 7\sqrt{2}$$



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

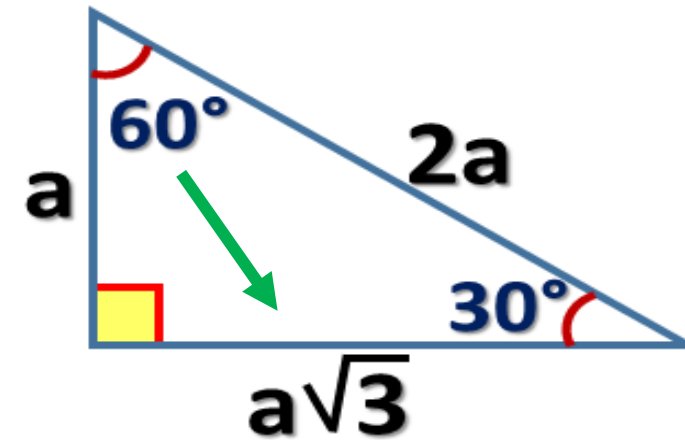
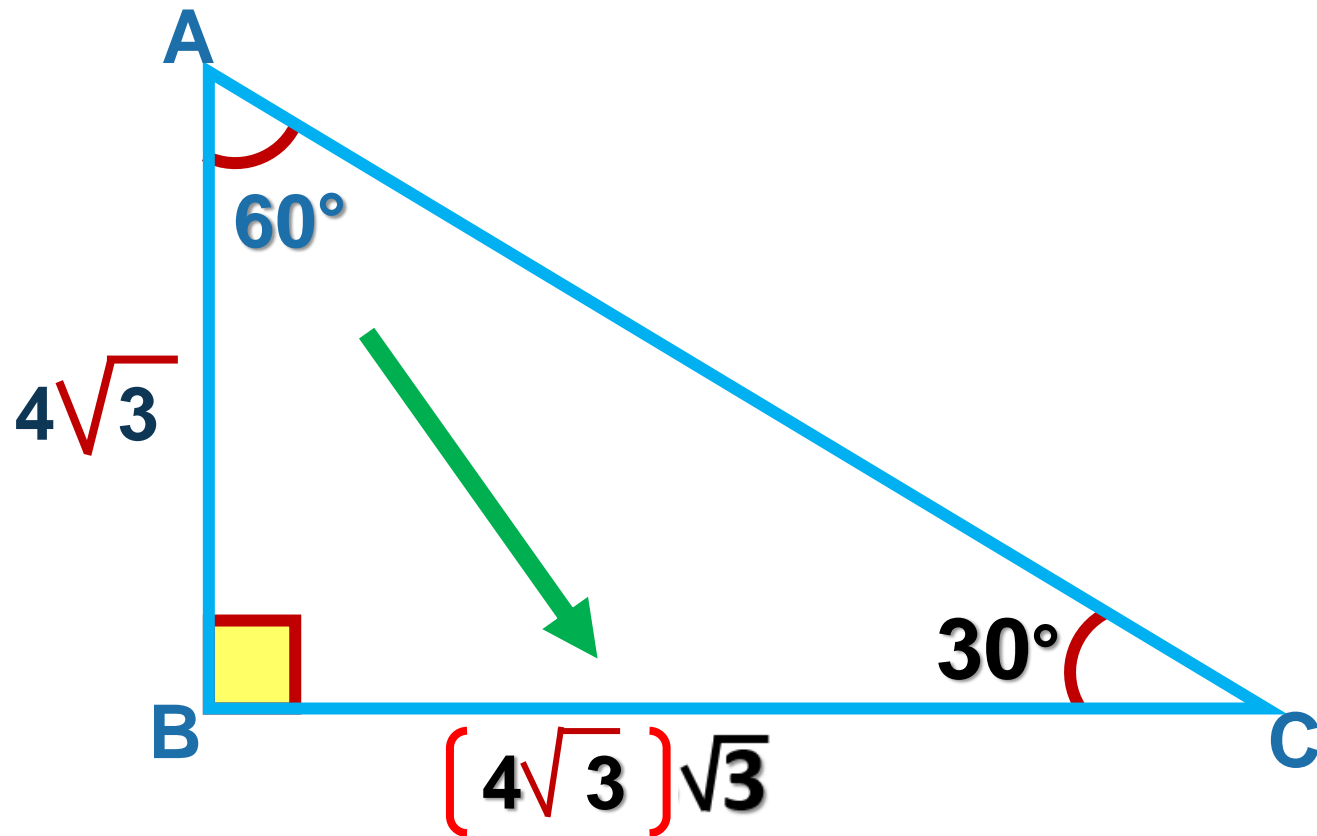


$$AB = 3(2)$$

$$AB = 6\text{m}$$



4. En el gráfico, halle BC.



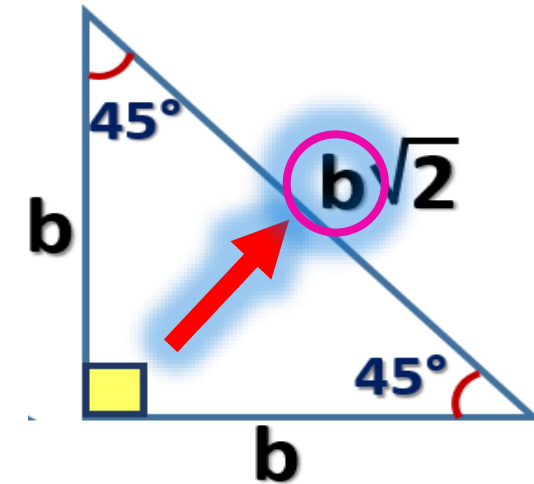
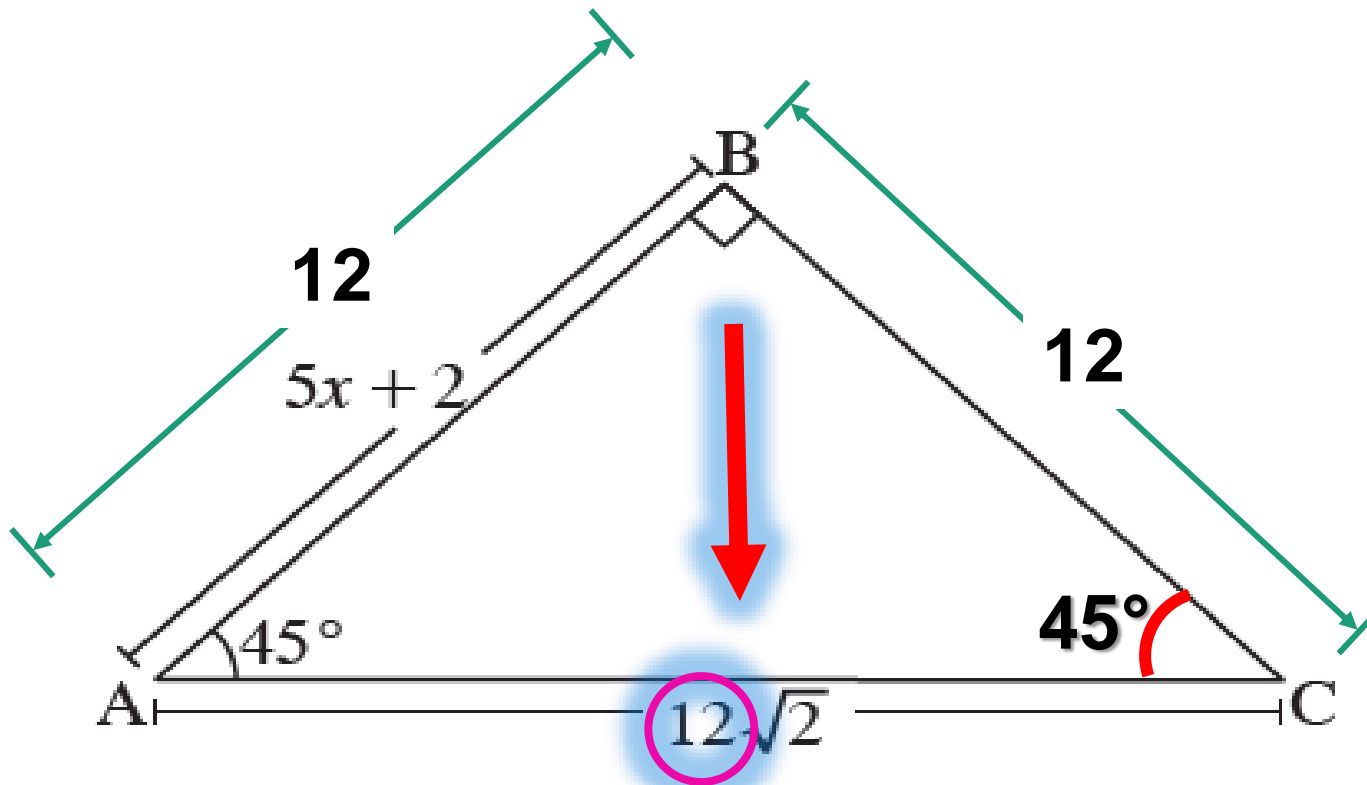
$$BC = 4\sqrt{3}(\sqrt{3})$$

$$BC = 4 \cdot 3$$

$$BC = 12$$



5. En el gráfico, halle el valor de x .



IGUALANDO

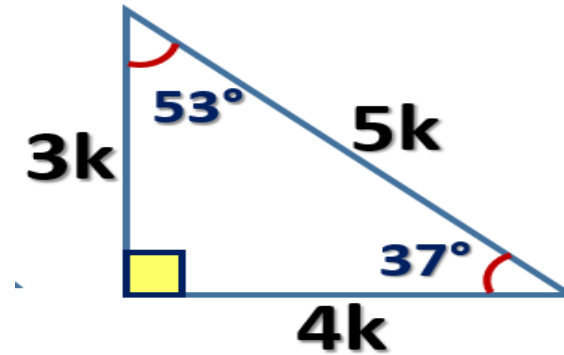
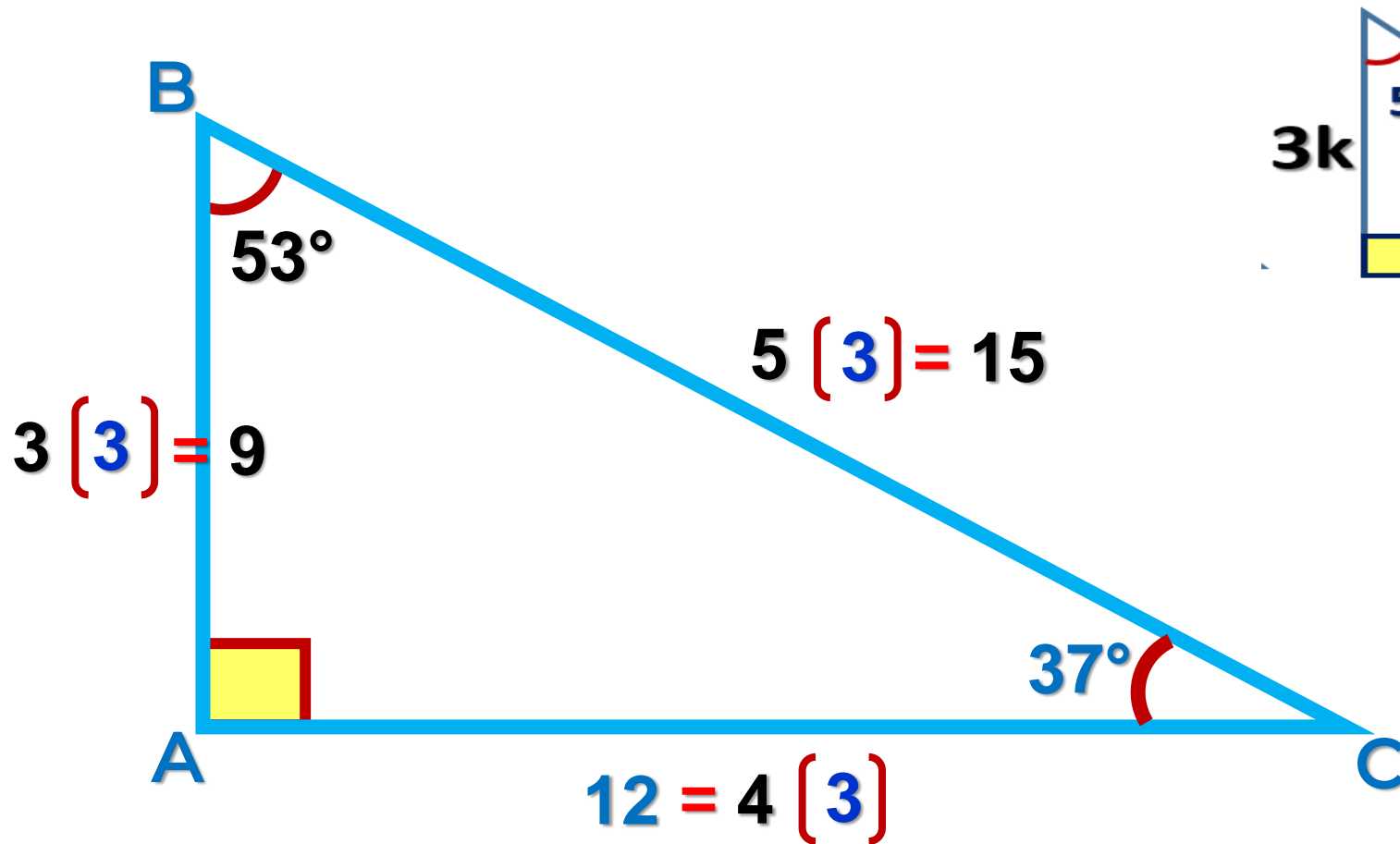
$$5x + 2 = 12$$

$$5x = 10$$

$$x = 2$$



6. En el gráfico, halle el perímetro de la escuadra mostrada.



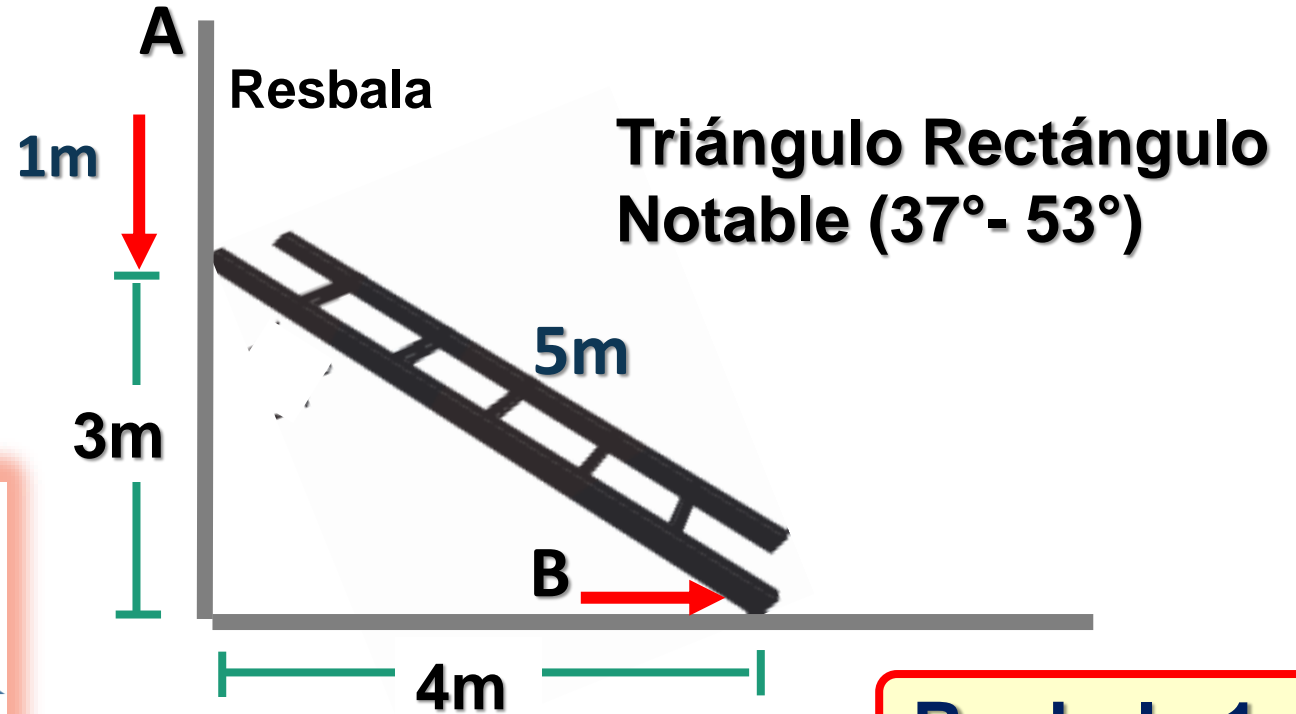
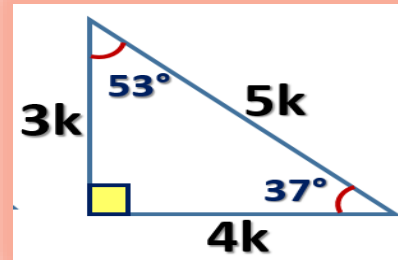
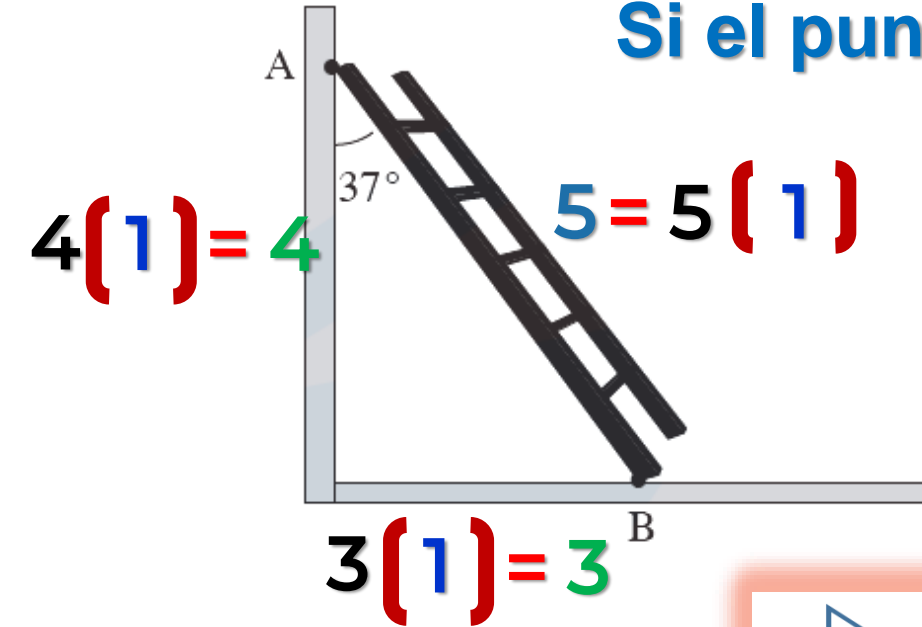
$$2p_{ABC} = 9 + 15 + 12$$

$$2p_{ABC} = 36\text{cm}$$



7. 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?



Resbala 1 m