GEOMETRÍA Capítulo 8

1st SECONDARY

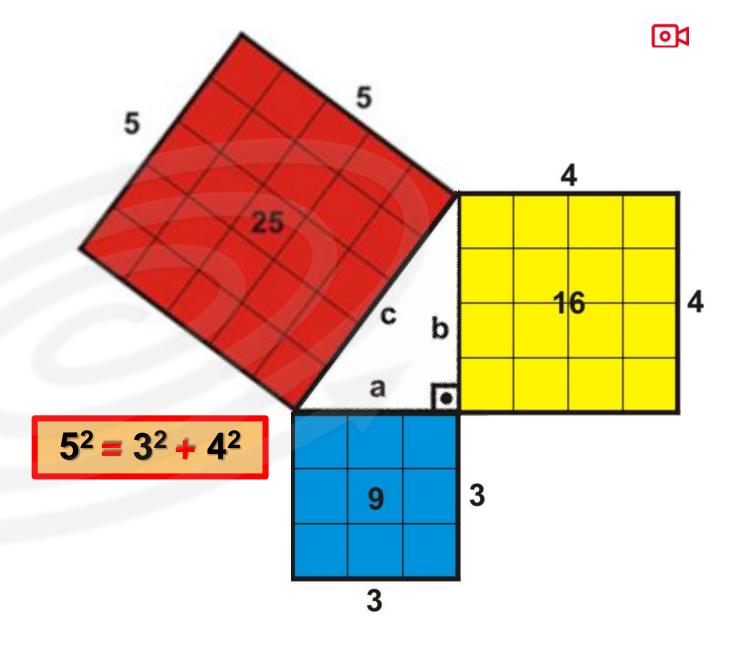
Triángulos rectángulos notables



HELICO | MOTIVATION

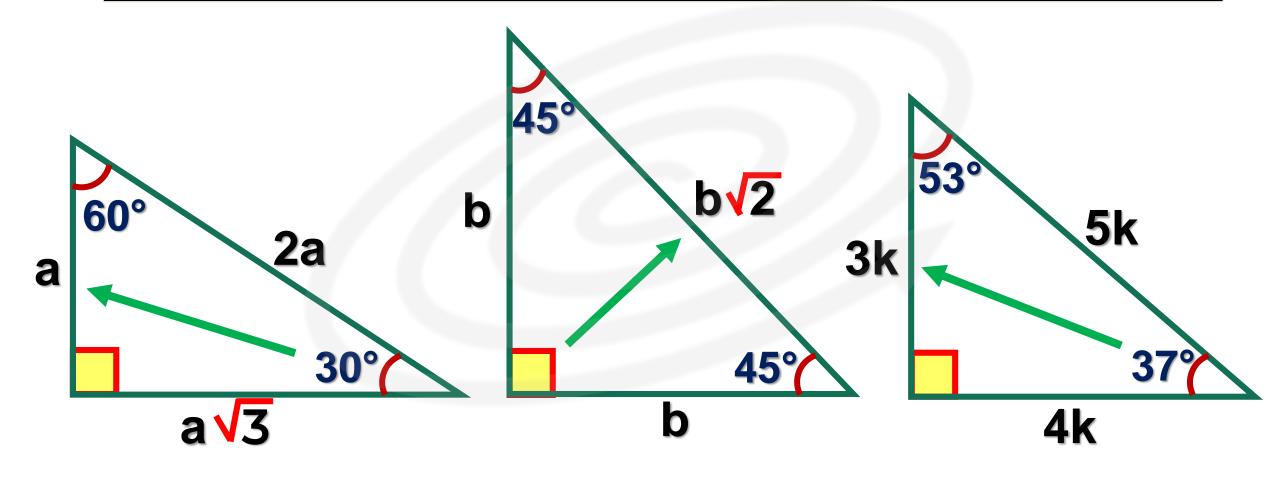








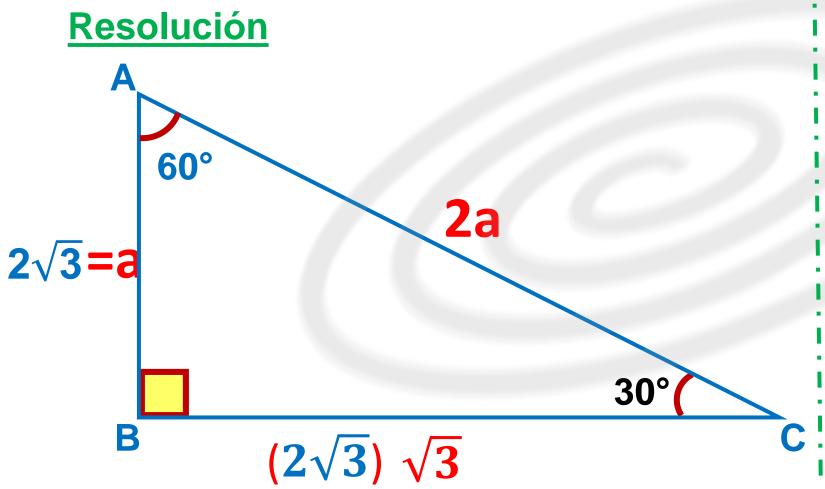
TRIÁNGULOS RECTÁNGULOS NOTABLES

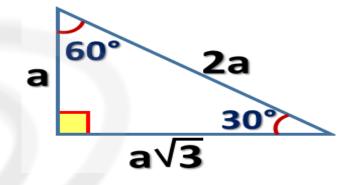




1. Se tiene un triángulo ABC, recto en B. Si AB = $2\sqrt{3}$ m y







Piden: BC

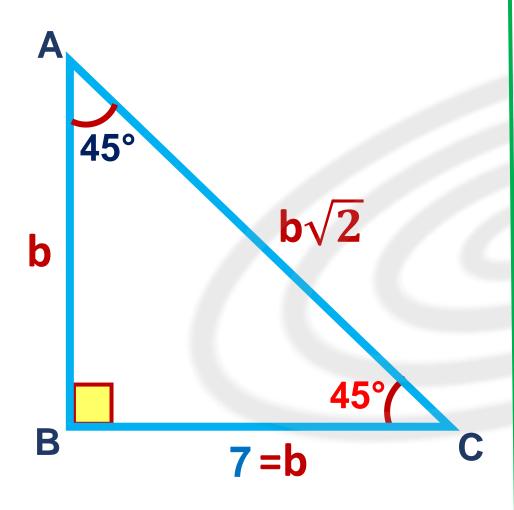
$$BC = (2\sqrt{3})\sqrt{3}$$

$$BC = 2.3$$

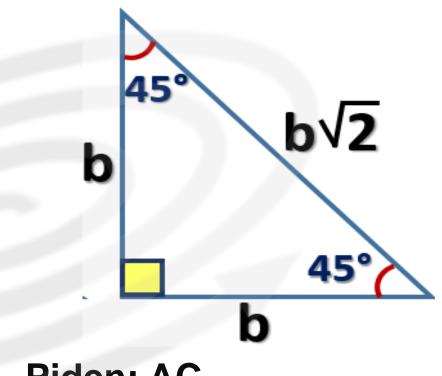
$$BC = 6 \text{ m}$$



2. En el gráfico, halle AC.



Resolución

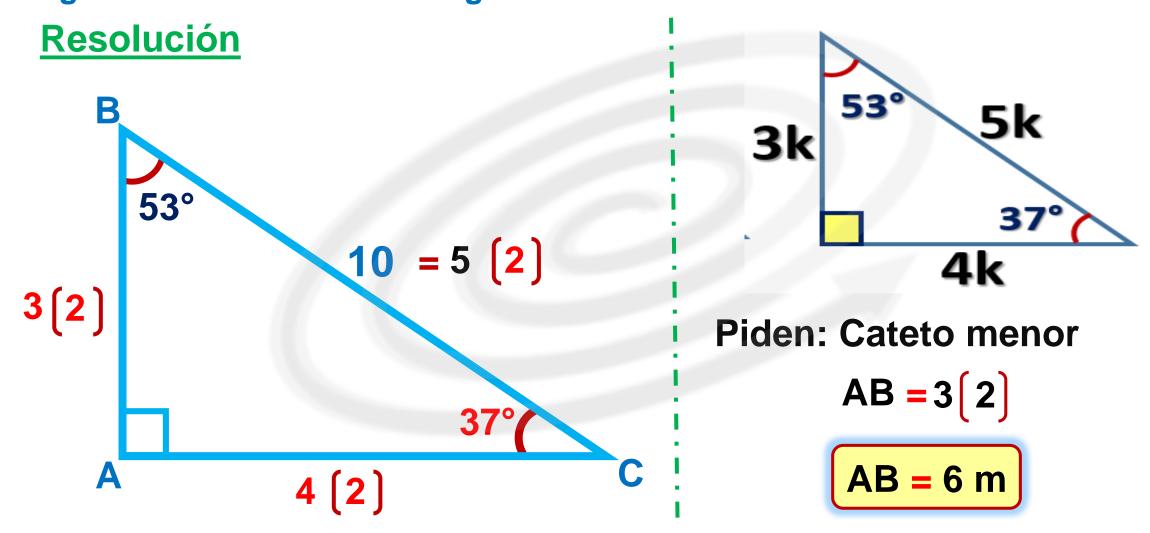


Piden: AC

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



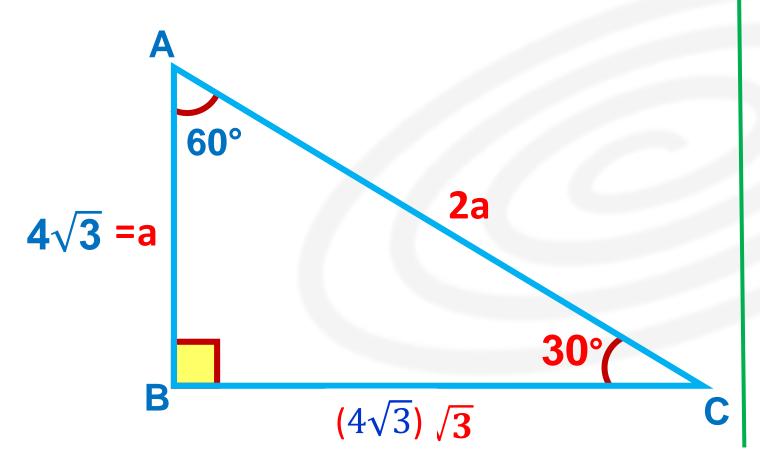
3.- La longitud de la hipotenusa de un triángulo rectángulo es 10 m y un ángulo agudo mide 53°. Halle la longitud del cateto menor.



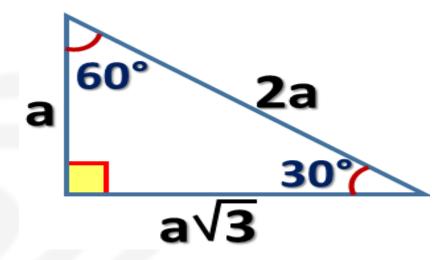
HELICO | PRACTICE



4. En el gráfico, halle BC.



Resolución



Piden: BC

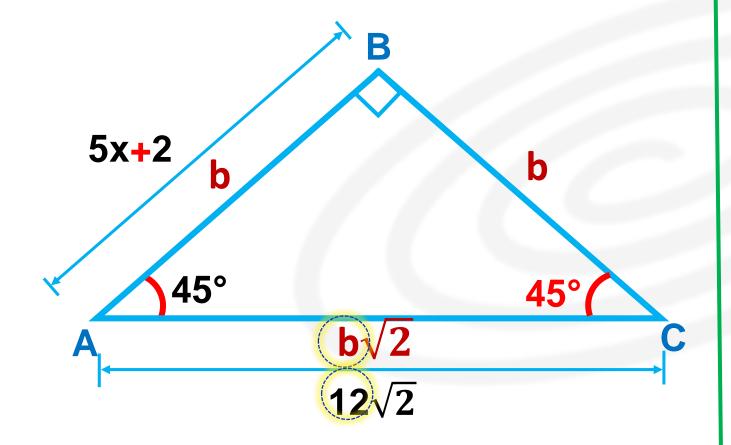
BC =
$$(4\sqrt{3})\sqrt{3}$$

$$BC = 4.3$$

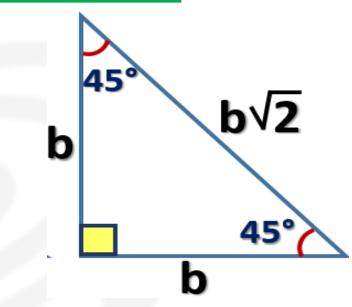
BC = 12



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



Resolución



Piden: x

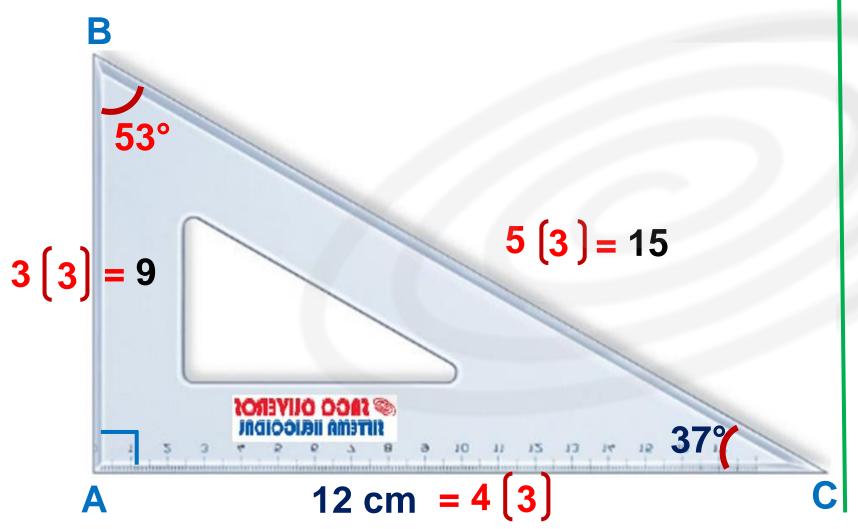
$$5x + 2 = 12$$

$$5x = 10$$

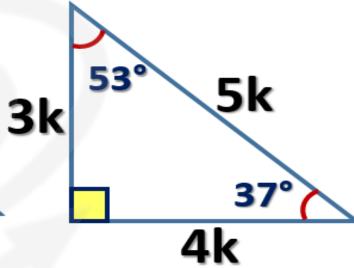
$$x = 2$$



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



Resolución



Piden: 2p_(ABC)

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

$$2p_{(ABC)} = 36 cm$$



5k

4k

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?

