

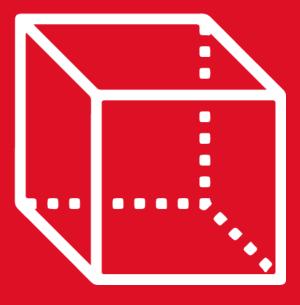
GEOMETRÍA

TOMO 6

2nd

SECONDARY

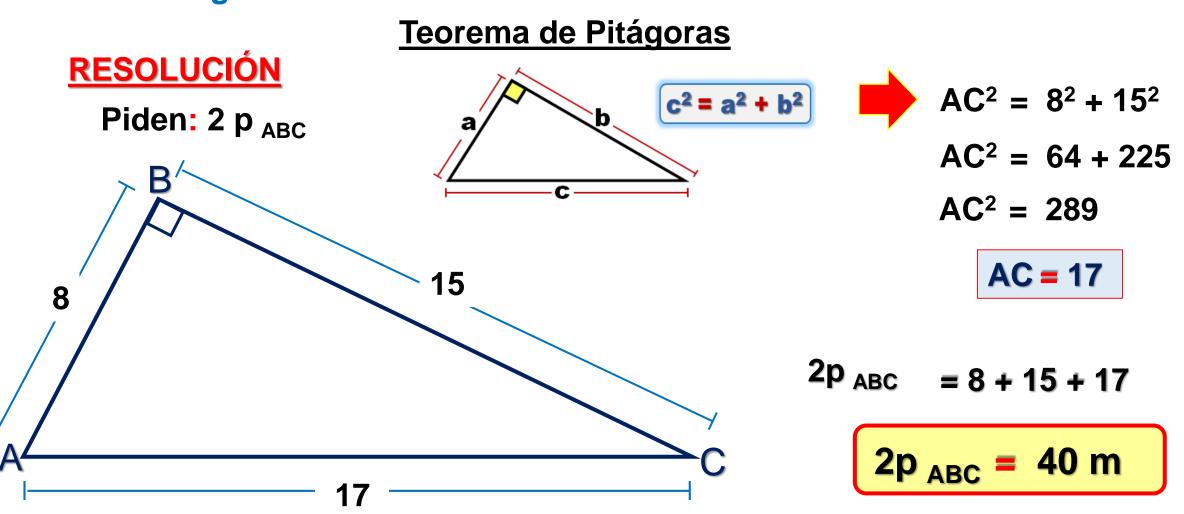
RETROALIMENTACIÓN





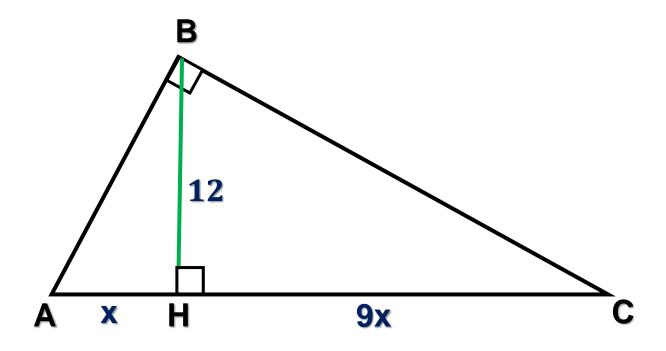


 En un triángulo ABC recto en B, si AB = 8m y BC = 15m, halle el perímetro del triángulo.

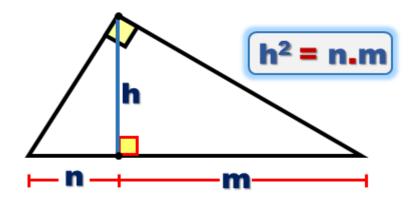




2. En el gráfico, halle el valor de x.



RESOLUCIÓN



$$12^2 = (x)(9x)$$

$$144 = 9x^2$$

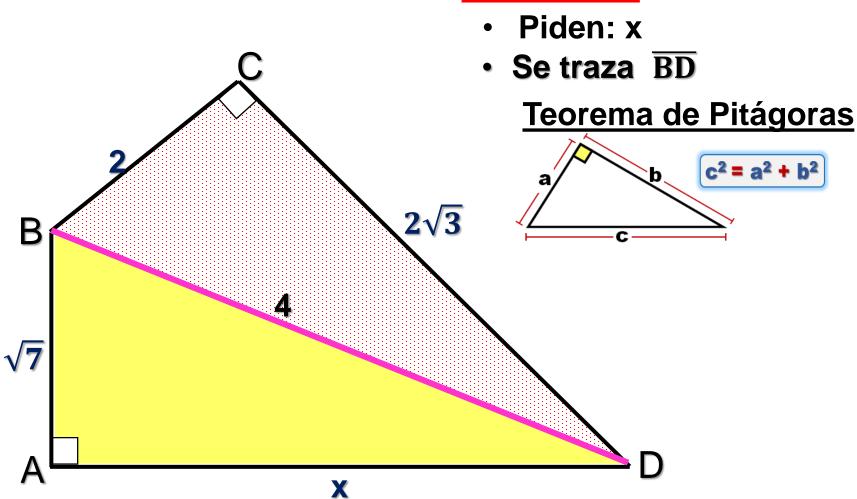
$$16 = x^2$$

$$x = 4 u$$



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

RESOLUCIÓN



• En el ⊿ BCD:

$$BD^2 = 2^2 + (2\sqrt{3})^2$$

$$BD^2 = 4 + 12$$

• En el ⊿ ABD:

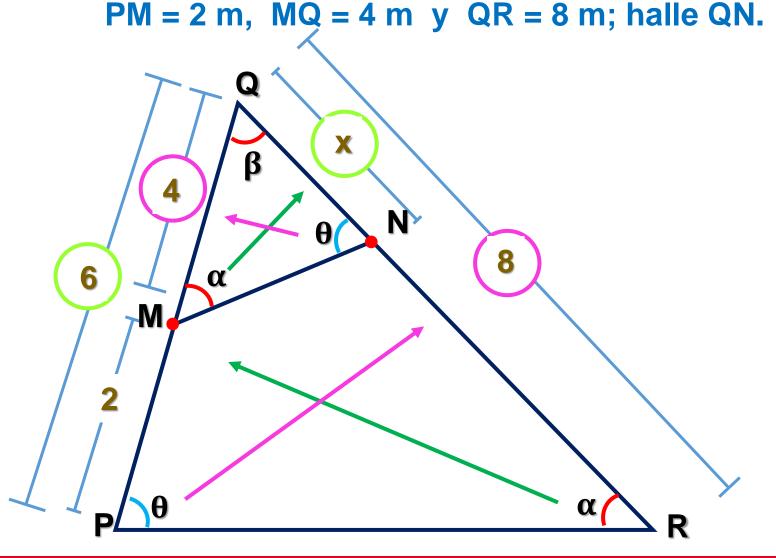
$$4^2 = x^2 + (\sqrt{7})^2$$

$$16 = x^2 + 7$$

$$9 = x^2$$

$$x = 3 u$$

4. Se tiene un triángulo PQR, donde $M \in \overline{PQ}$, $N \in \overline{QR}$ y m<QMN = m<PRQ. Si



RESOLUCIÓN

$$\frac{\Delta MQN}{6} \sim \frac{\Delta RQP}{6}$$

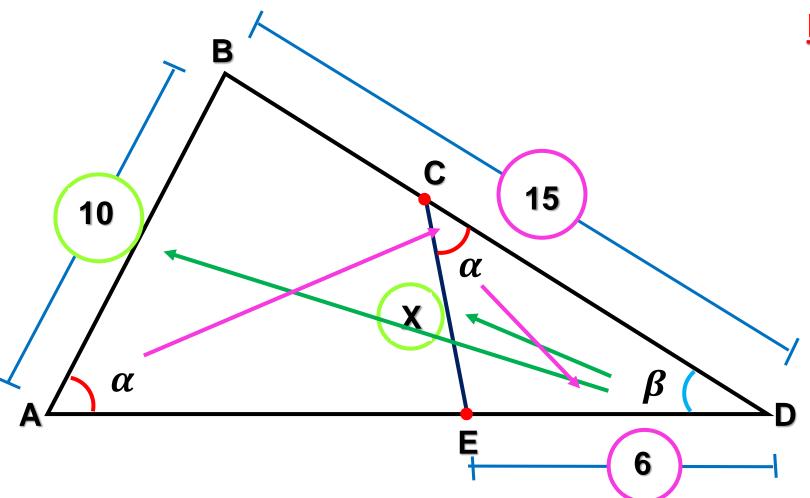
$$(8).(x) = (6).(4)$$

$$8x = 24$$

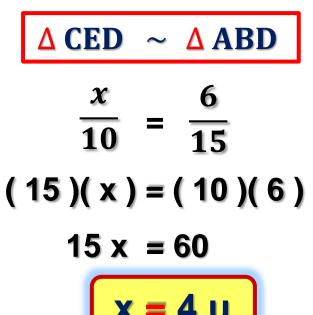
$$x = 3 u$$



5. Se tiene un triángulo ABD, donde $C \in BD$, $E \in \overline{AD}$ y m<BAD = m<ECD. Si AB = 10, BD = 15 y ED = 6; halle CE.

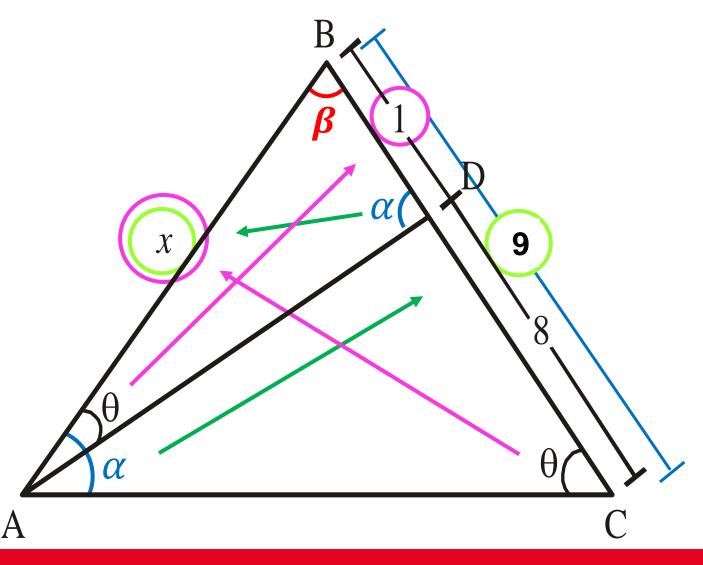


RESOLUCIÓN





6. Del gráfico, halle el valor de x.



RESOLUCIÓN

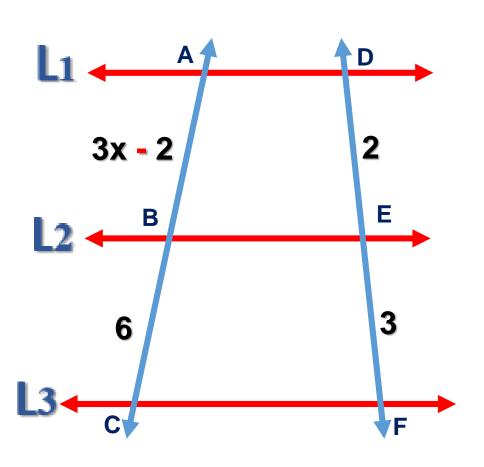
• Piden: x

$$\triangle$$
 ABD \sim \triangle CBA

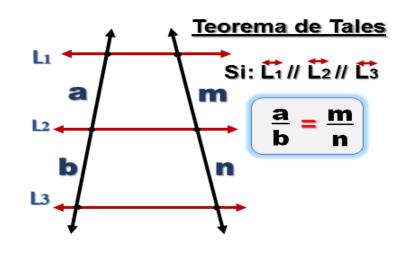
$$\frac{x}{9} = \frac{1}{x}$$
 $x^2 = (1).(9)$
 $x^2 = 9$



7. Si
$$\overrightarrow{L_1}$$
 // $\overrightarrow{L_2}$ // $\overrightarrow{L_3}$, AB = 3x – 2, BC = 6, DE = 2, EF = 3. Halle el valor de x.



RESOLUCIÓN



$$\frac{3x-2}{6} = \frac{2}{3}$$

$$9x - 6 = 12$$

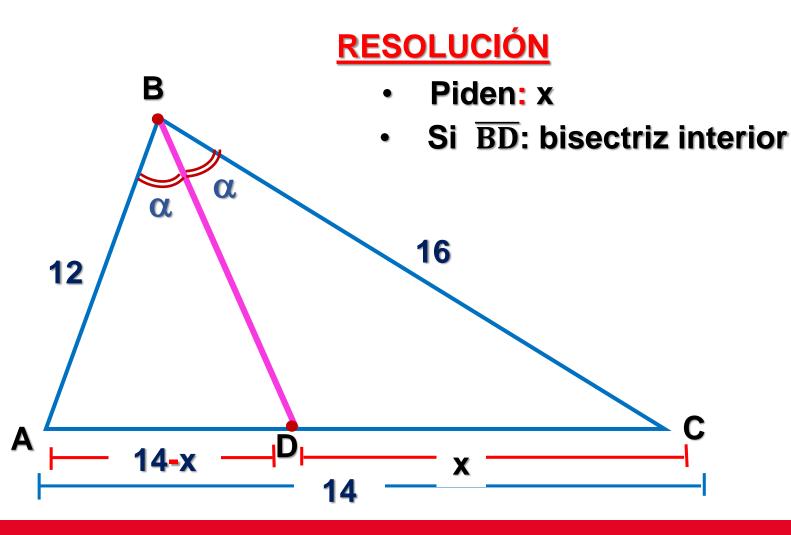
$$9x = 18$$

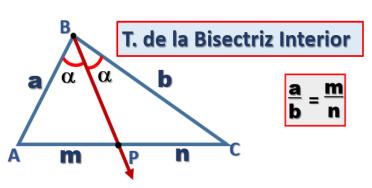
$$x = 2 u$$

HELICO | PRACTICE



8. En un triángulo ABC, se traza la bisectriz interior \overline{BD} . Si AB = 12m, BC = 16, AC = 14; halle el valor de DC.





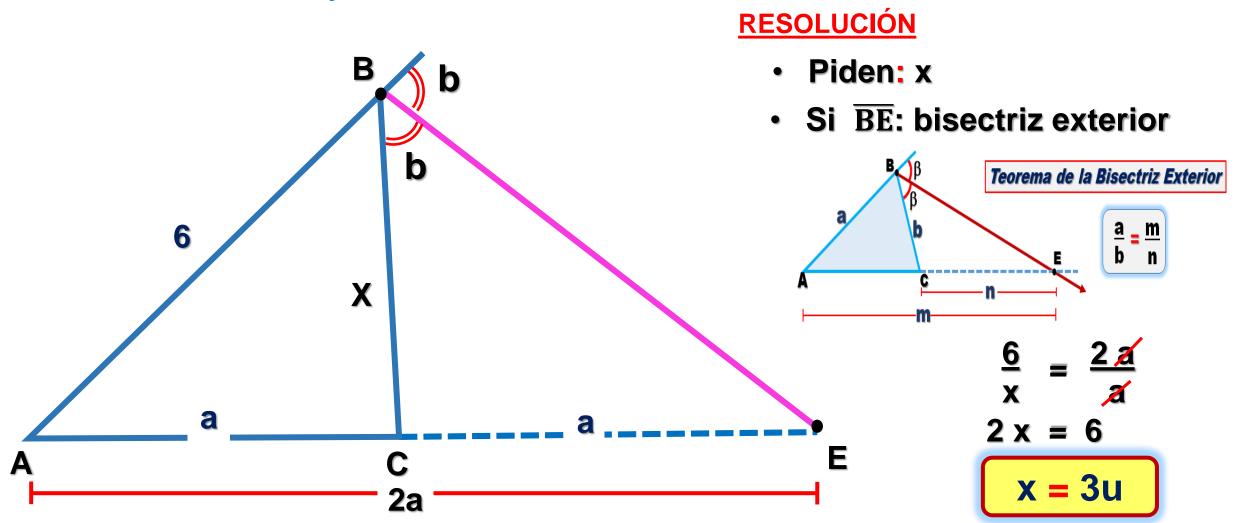
$$\frac{12}{16} = \frac{14 - x}{x}$$

$$3x = 56 - 4x$$

$$7x = 56$$

HELICO | PRACTICE

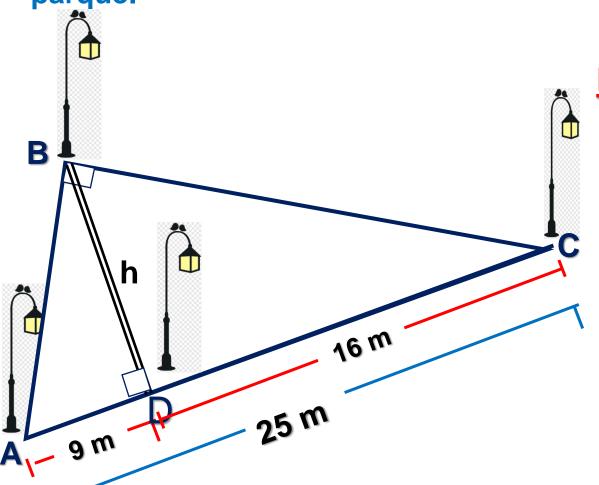
9. En el triángulo ABC se traza la bisectriz exterior BE, donde E ∈ a la prolongación de \overline{AC} . Si AB= 6m y CE = AC, halle BC.



HELICO | PRACTICE

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10. Se colocan cuatro postes de alumbrado público en el jardín del profesor Eduardo, como se muestra en la figura. Determine la longitud de la vereda BD que cruza el parque.



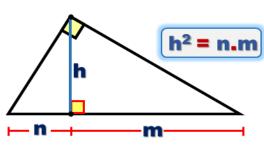
RESOLUCIÓN

- · Piden: h
- Del gráfico

$$AC = AD + DC$$

$$25 = 9 + DC$$

$$DC = 16m$$



$$h^2 = (9).(16)$$

$$h^2 = 144$$

$$x = 12 m$$