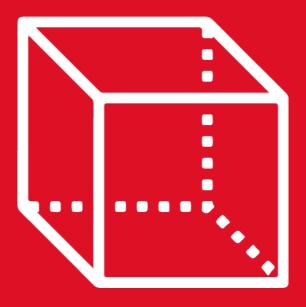


GEOMETRÍA

2n SECONDARY

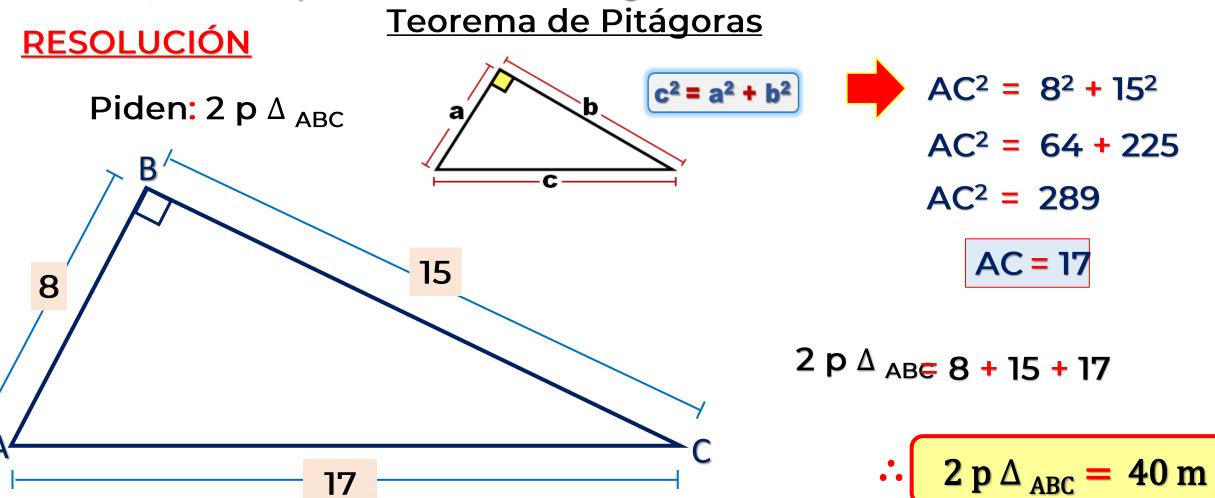
RETROALIMENTACIÓN TOMO VI







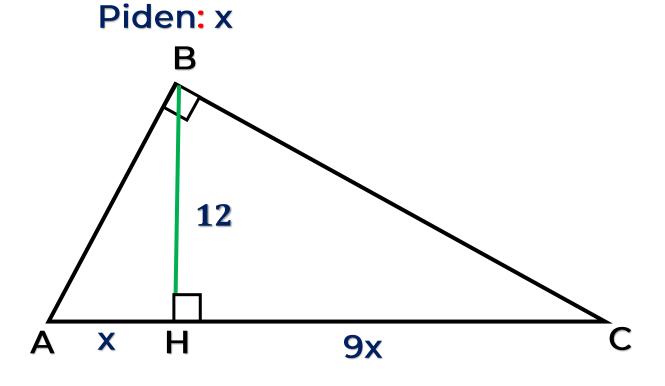
En un triángulo ABC recto en B, si AB = 8m y BC = 15m, halle el perímetro del triángulo.

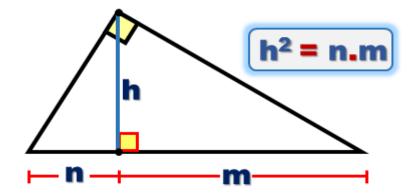




2. En el gráfico, halle el valor de *x*.

RESOLUCIÓN





$$12^{2} = (x).(9x)$$

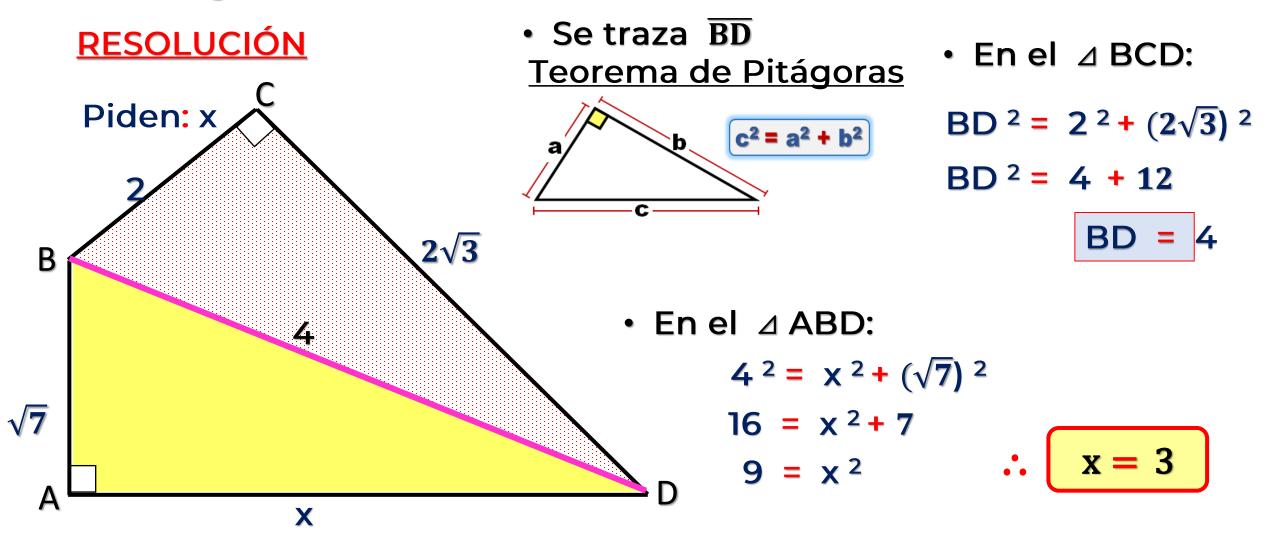
$$144 = 9 x^{2}$$

$$16 = x^{2}$$

$$\therefore$$
 $x = 4$



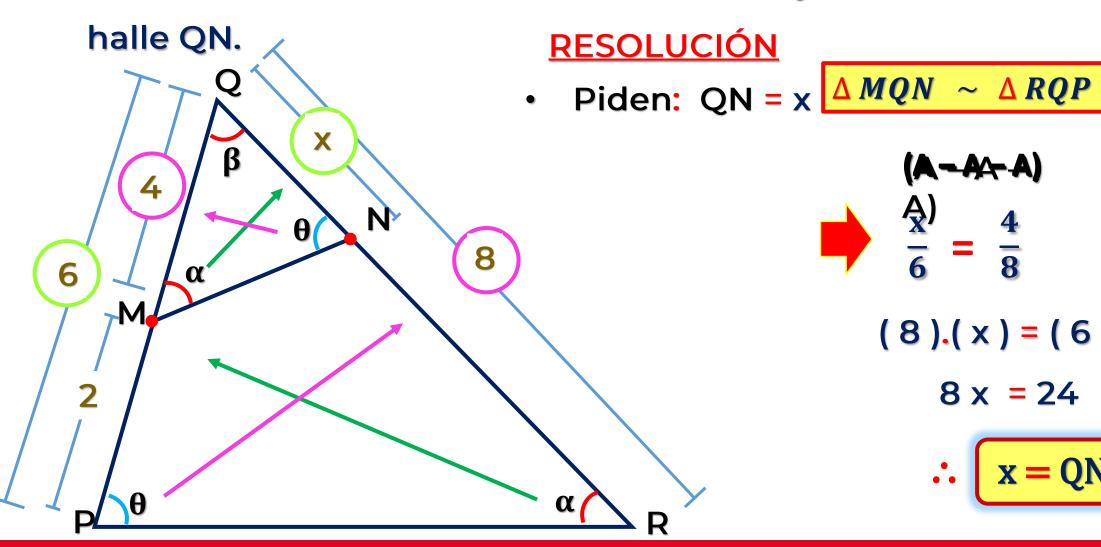
3. En el gráfico, halle el valor de x.



HELICO | PRACTICE



Se tiene un triángulo PQR, donde M ∈ PQ, N ∈ QR y m<QMN=m<PRQ. Si PM= 2m, MQ= 4m y QR= 8m;



(A-AA-A)

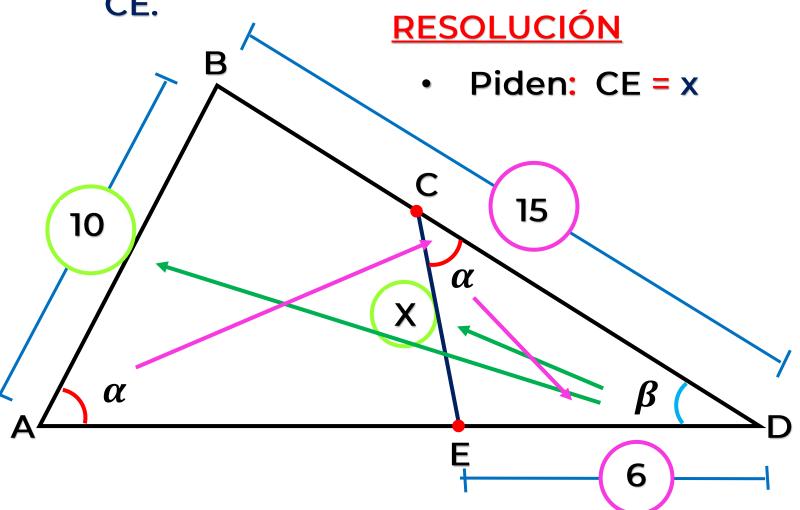
$$\frac{2}{6} = \frac{4}{8}$$

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

 $8x = 24$

$$\therefore x = QN = 3$$

5. Se tiene un triángulo ABD, donde C ∈ BD, E ∈ AD y m<BAD=m<ECD. Si AB= 10, BD= 15 y ED= 6; halle CE.</p>



$$\triangle CED \sim \triangle ABD$$

$$(A - A - A - A)$$

$$\frac{x}{10} = \frac{6}{15}$$

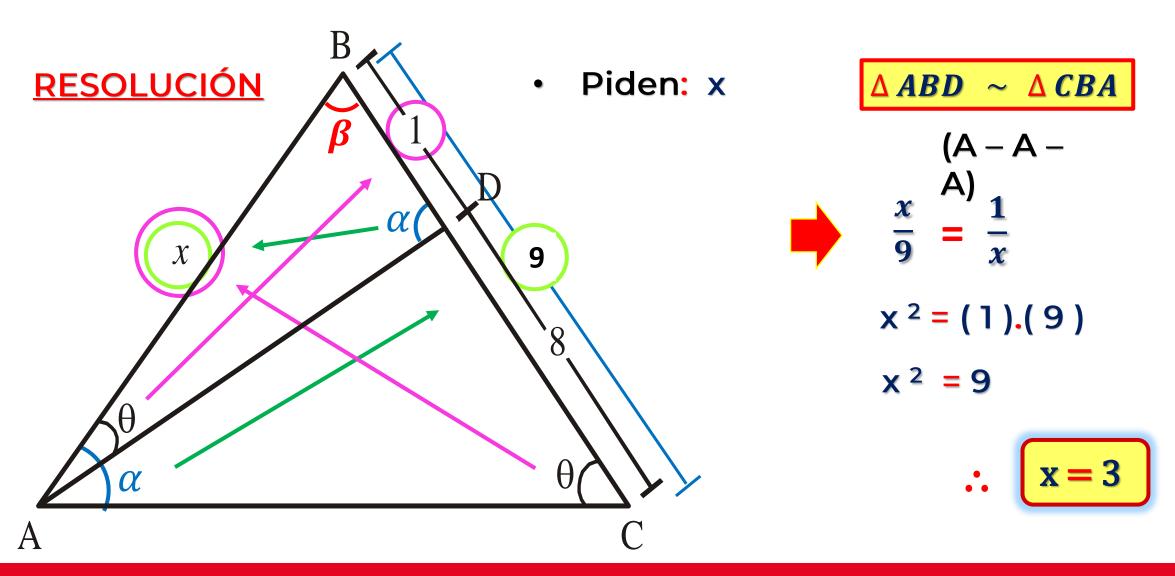
$$(15).(x) = (10).(6)$$

$$15 x = 60$$

$$\therefore x = 4$$

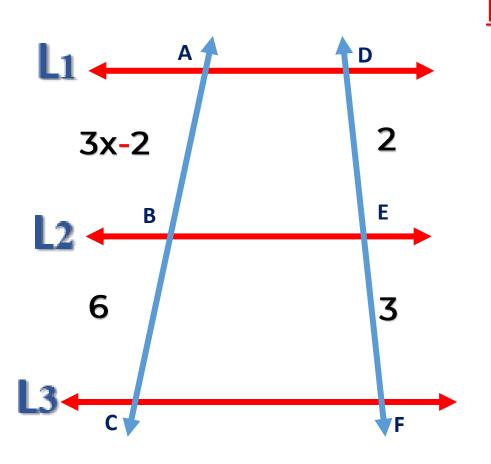


6. Del gráfico, halle el valor de x.



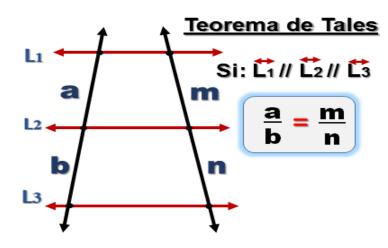


7. Si $\overrightarrow{L_1}$ // $\overrightarrow{L_2}$ // $\overrightarrow{L_3}$, AB=3x-2, BC=6, DE=2, EF=3. Halle el valor de x.



RESOLUCIÓN

Piden: x



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

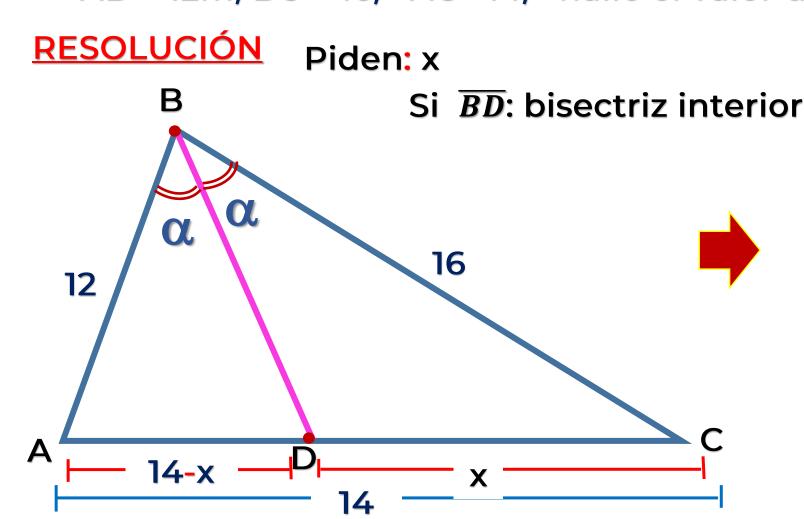
$$9x - 6 = 12$$

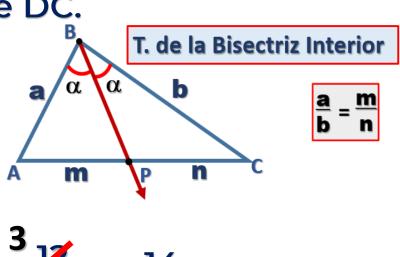
$$9x = 18$$

$$\therefore x = 2$$



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





$$\frac{3}{4} = \frac{14 - x}{x}$$

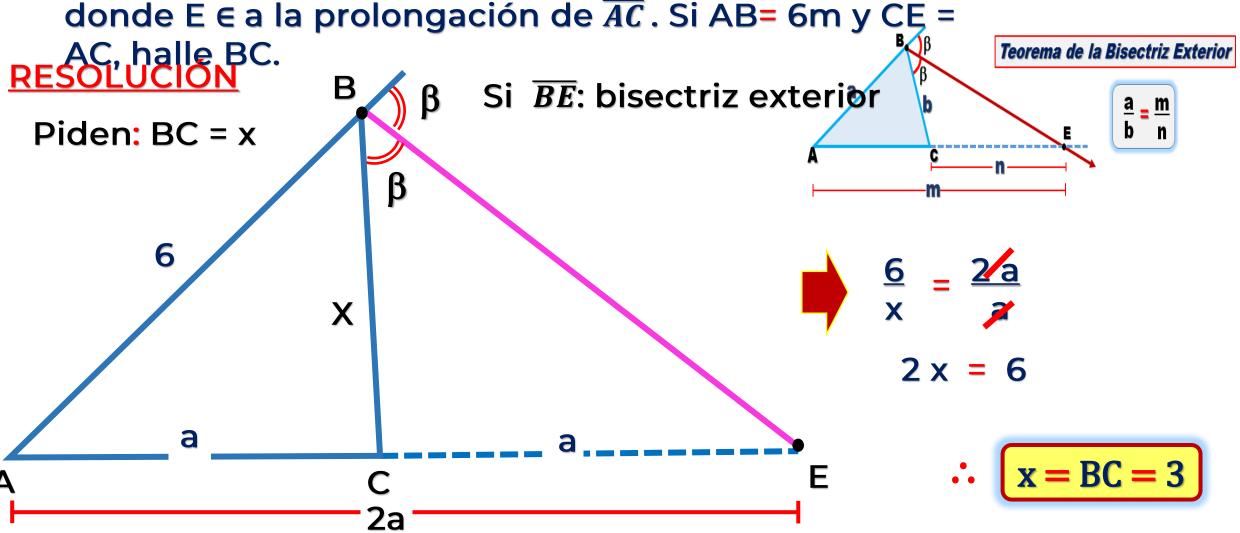
$$3x = 56 - 4x$$

$$7x = 56$$

$$\therefore$$
 $x = 8$

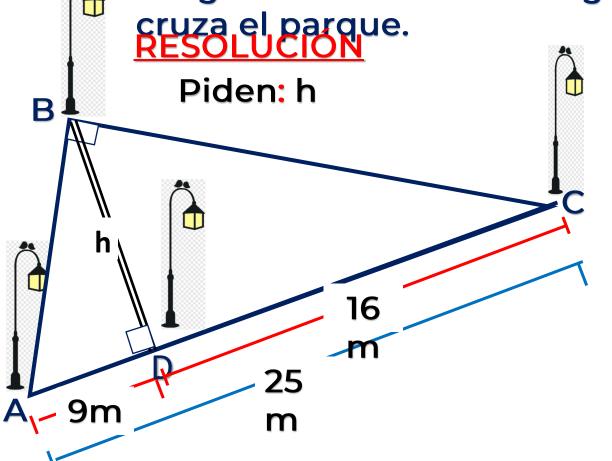


9. En el triángulo ABC se traza la bisectriz exterior \overline{BE} , donde $E \in a$ la prolongación de \overline{AC} . Si AB= 6m y CE =





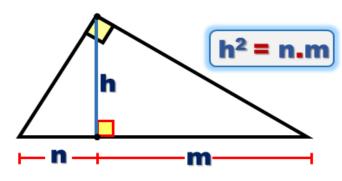
10. Se colocan cuatro postes de alumbrado público en el jardín del profesor Eduardo, como se muestra en la figura. Determine la longitud de la vereda BD que



Del gráfico

$$AC = AD + DC$$

$$25 = 9 + DC$$



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

$$h^2 = 144$$

$$x = 12m$$