

GEOMETRÍA

2 bimestre



Repaso

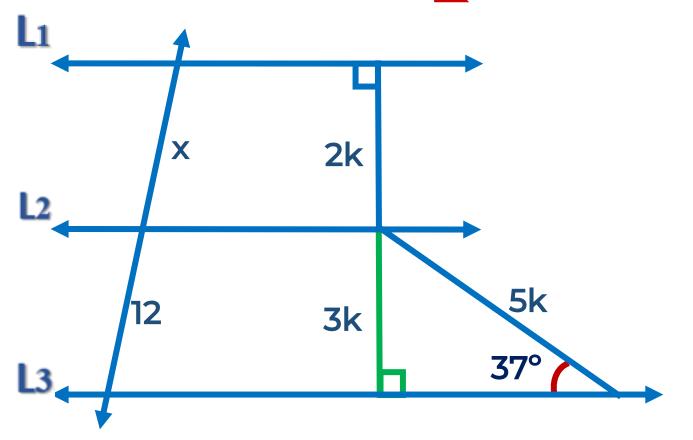




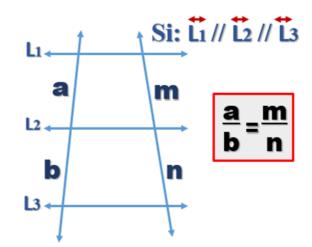


1. En la figura, calcule x, si \overrightarrow{L}_1 // \overrightarrow{L}_2 // \overrightarrow{L}_3 .

notables de 37° y 53°.



Teorema de Tales



Por teorema de Tales

$$\frac{x}{12} = \frac{2k}{3k}$$
 $3x = 2(12)$

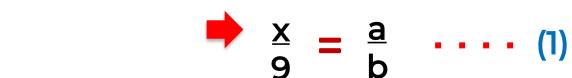
$$x = 8$$



2. En la figura, calcule x.



b



Corolario de Tales

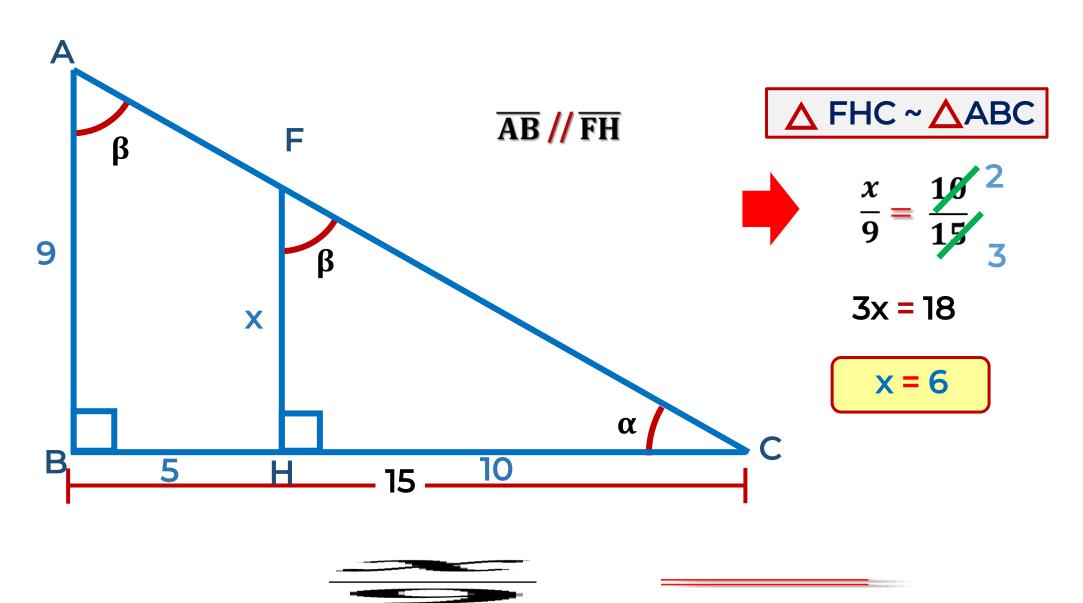
$$\Rightarrow \frac{4}{x} = \frac{a}{b} \quad \dots \quad (2)$$

• <u>Igualando 1 y 2</u>

$$\frac{X}{9} = \frac{4}{x}$$
 $x^2 = 36$

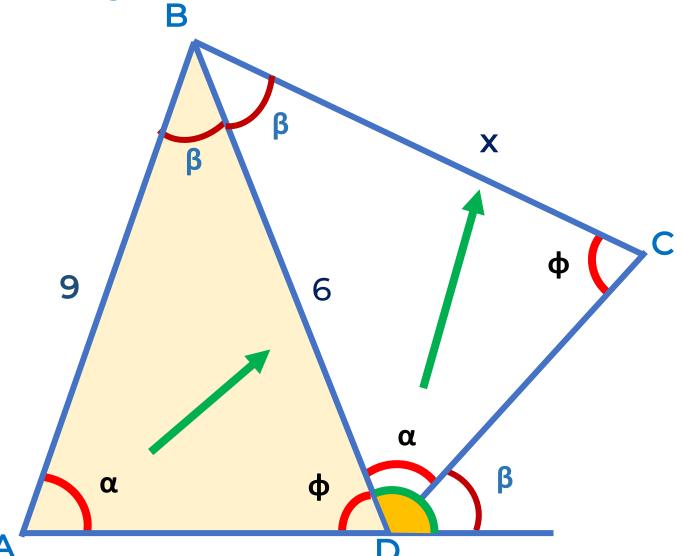


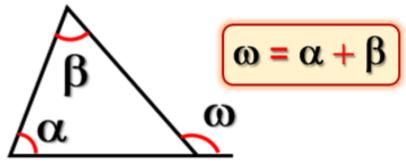
3. En la figura, calcule x.













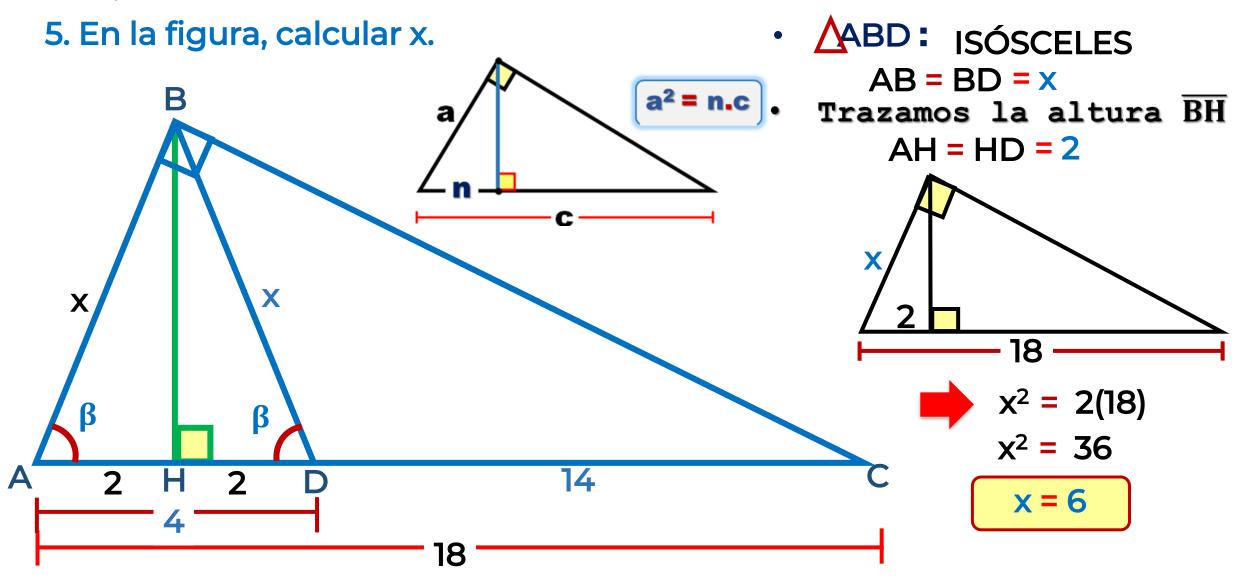


$$\frac{x}{6} = \frac{5}{9}$$

$$3x = 12$$

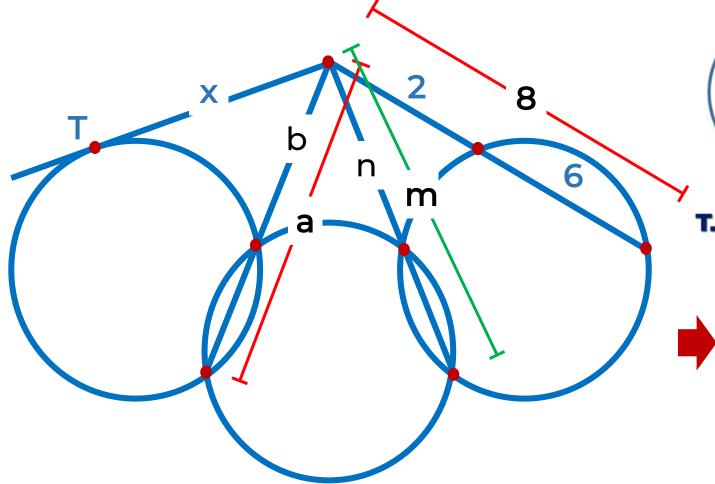
$$x = 4$$

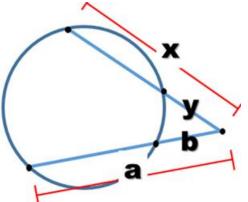










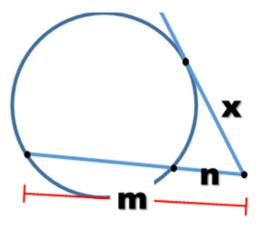


T. de las Secantes

$$x.y = a.b$$

- m.n = 8.2
 - m.n = 16
- a.b = m.n

$$a.b = 16$$



T. de la Tangente

$$x^{2} = a.b$$



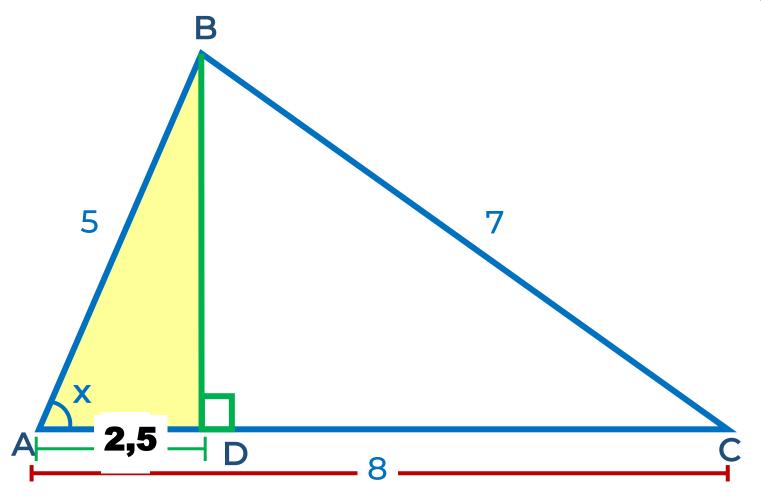
$$x^2 = 16$$

$$x = 4$$

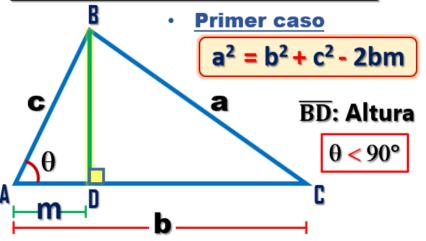
HELICO | PRACTICE

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7. En la figura, calcule x.



- Trazamos la altura BD
- TEOREMA DE EUCLIDES



$$7^2 = 8^2 + 5^2 - 2(8)(m)$$

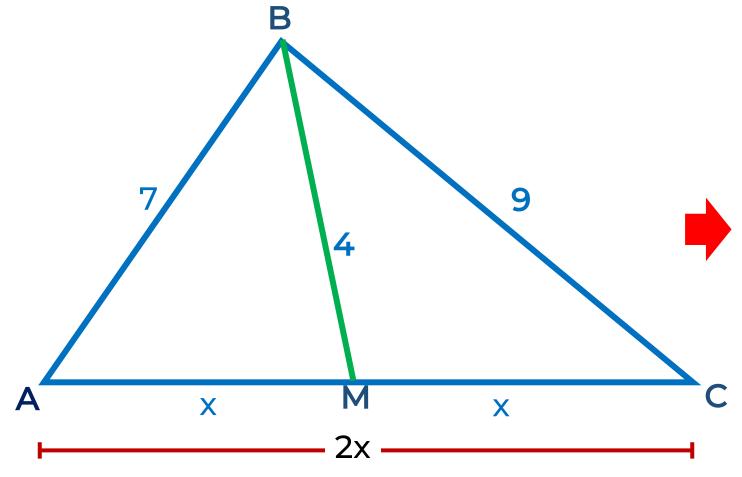
 $49 = 64 + 25 - 16m$
 $16m = 40$
 $m = 2,5$

• ABD: Notable de 30° y 60°

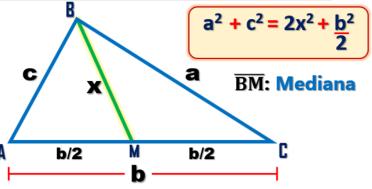
 $x = 60^{\circ}$



8. En un triángulo ABC se traza la mediana \overline{BM} , AB = 7, BC = 9 y BM = 4. Calcule AM.







$$9^2 + 7^2 = 2(4)^2 + (2x)^2$$

$$81 + 49 = 32 + 2x^2$$

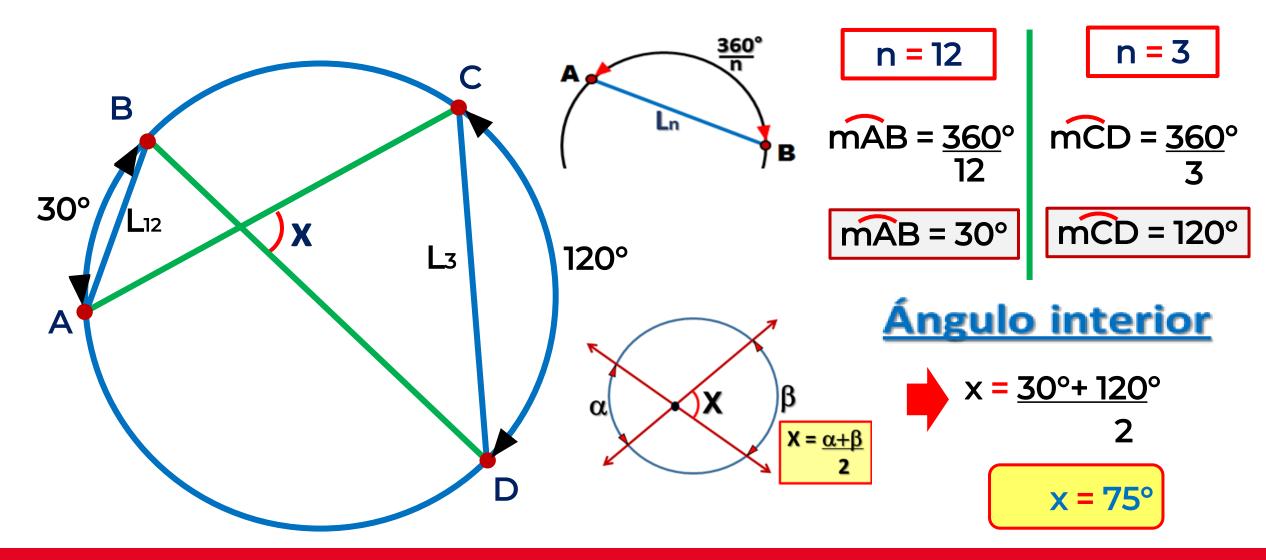
$$98 = 2x^2$$

$$49 = x^2$$

7 = x



9. Si AB = L_{12} y CD = L_{3} , calcule la medida del ángulo que forman \overline{BD} y \overline{AC} .





10. En el gráfico, BD = 13 y CE = 10, calcule el área de la región sombreada.

