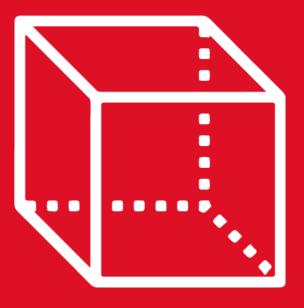


GEOMETRÍA

Retroalimentación 2 bimestre



Repaso



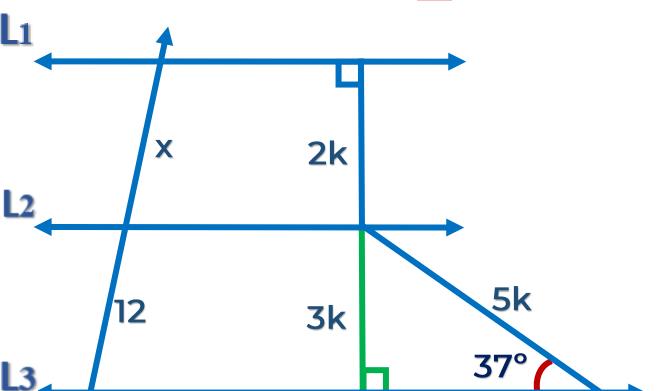


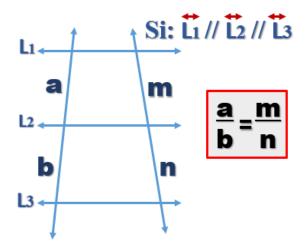


1. En la figura, calcule x, si L1 // L2 // L3.

Teorema de Tales

notables de 37° y 53°.





<u>Por teorema de Tales</u>

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

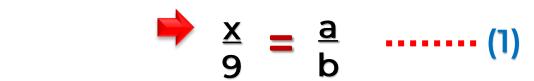
$$x = 8$$



2. En la figura, calcule x.

b





Corolario de Tales

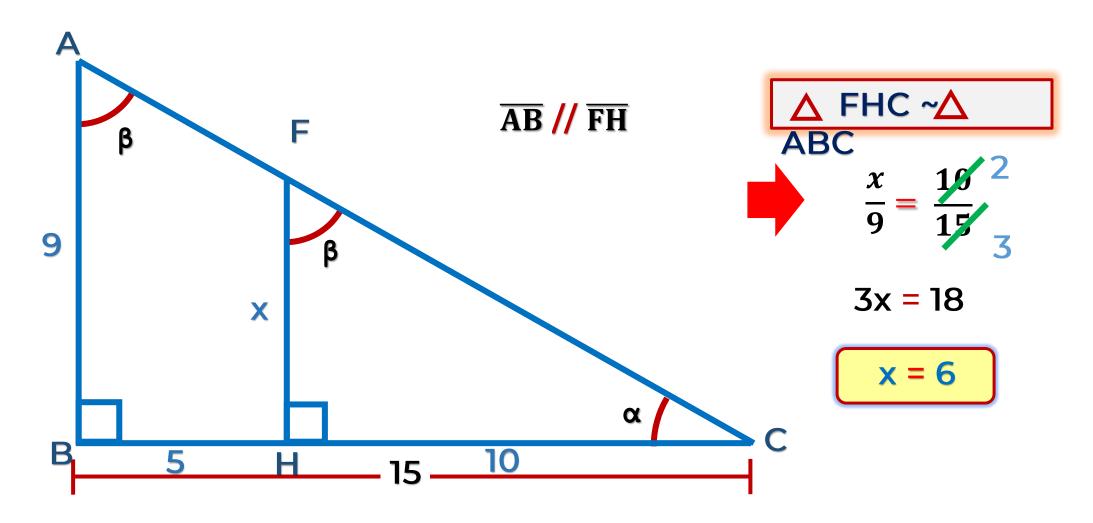
$$\Rightarrow \frac{4}{x} = \frac{a}{b} \qquad (2)$$

• Igualando 1 y 2

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

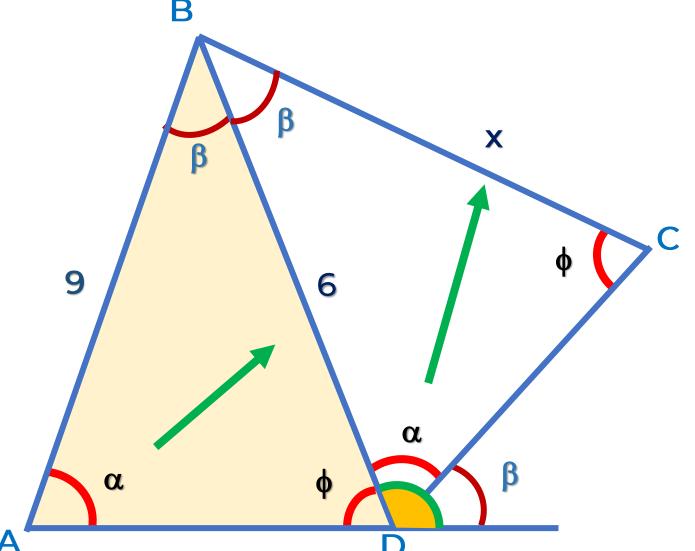


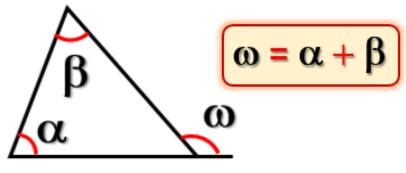
3. En la figura, calcule x.



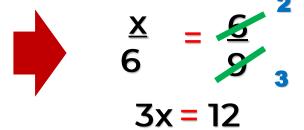




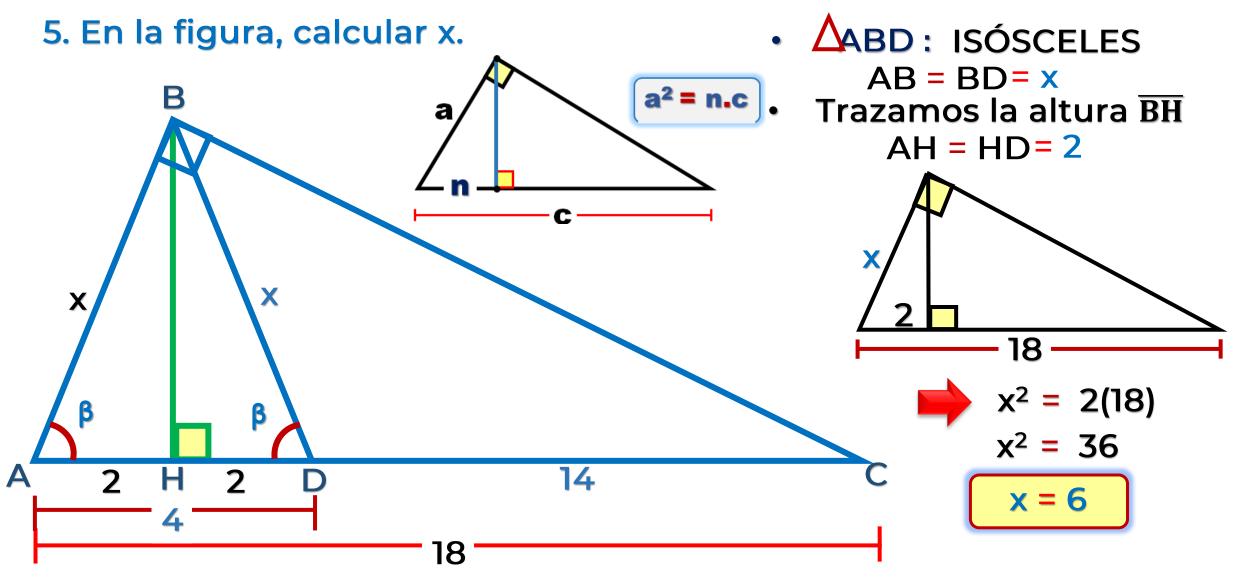






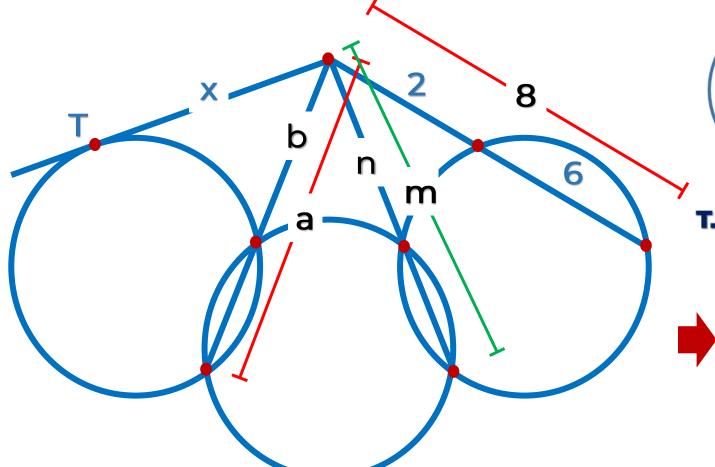


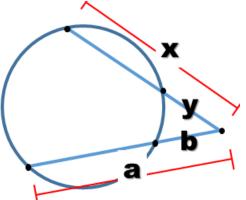








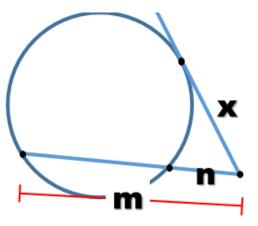




T. de las Secantes

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

$$a.b = 16$$



T. de la Tangente

$$x^2 = a.b$$

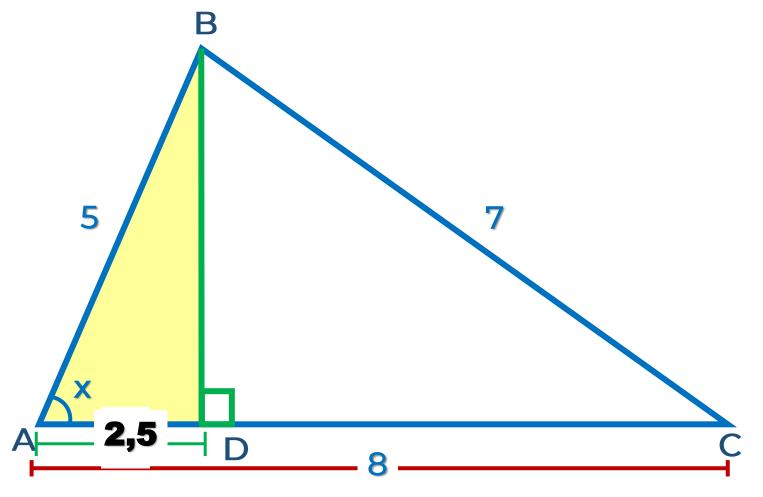


$$x^2 = 16$$

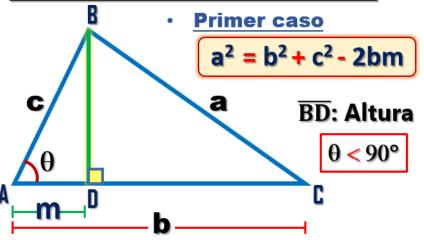
$$x = 4$$



7. En la figura, calcule x.



- Trazamos la altura BD
- TEOREMA DE EUCLIDES



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

 $49 = 64 + 25 - 16m$
 $16m = 40$

$$m = 2,5$$

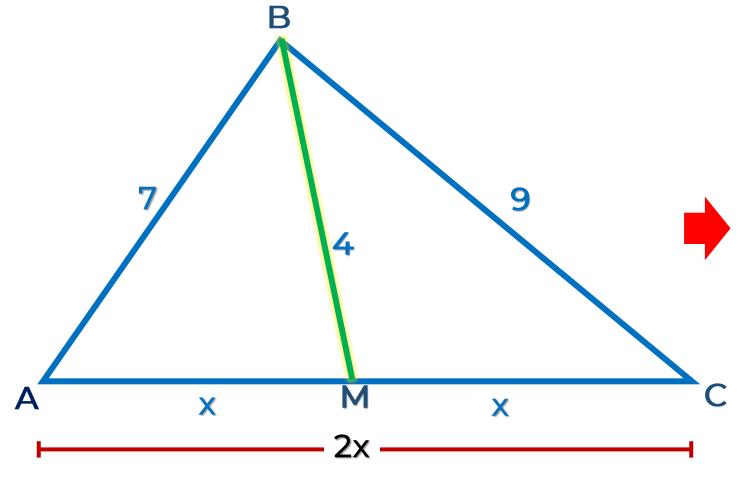
• ABD: Notable de 30° y 60°

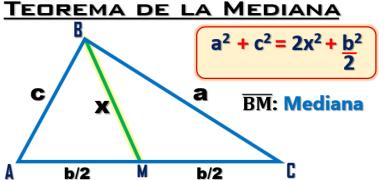
$$x = 60^{\circ}$$



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







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

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

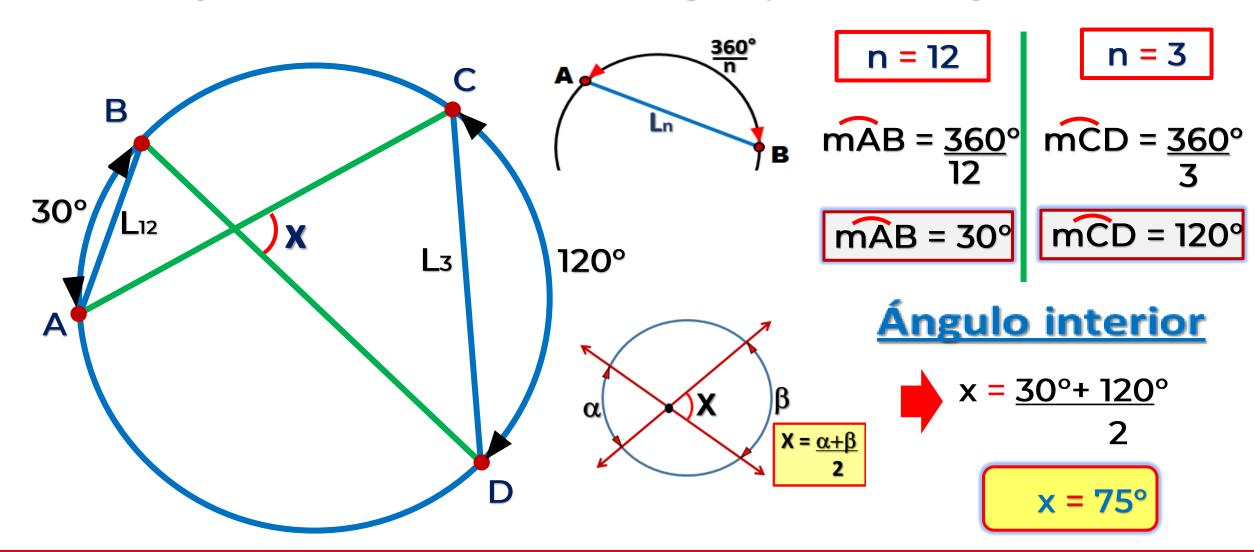
 $98 = 2x^2$

$$49 = x^2$$

$$7 = x$$



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.

