

GEOMETRÍA

3rd SECONDARY SESIÓN II

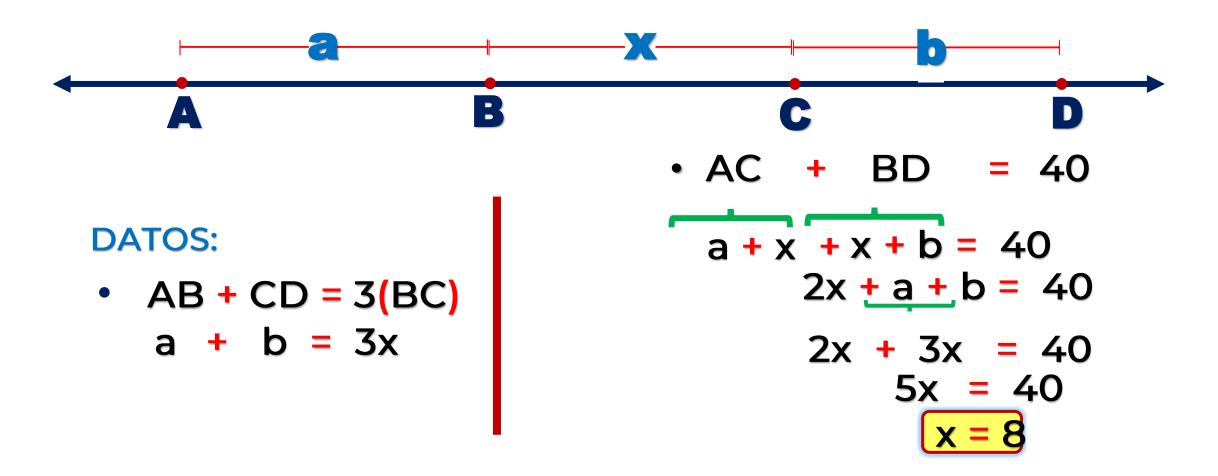


Asesoría Primer Bimestre



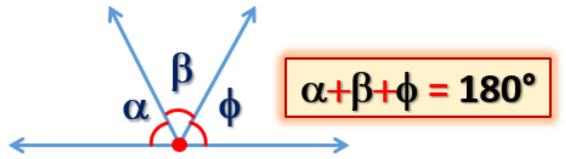


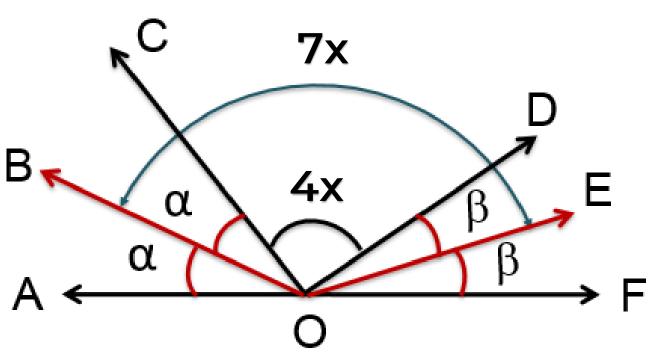
1.En una recta se ubican los puntos consecutivos A, B. C y D, de modo que AB + CD = 3(BC) y AC + BD = 40. Calcule BC.

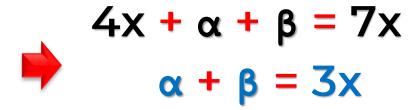




2.En la figura, halle el valor de x.







$$7x + \alpha + \beta = 180^{\circ}$$

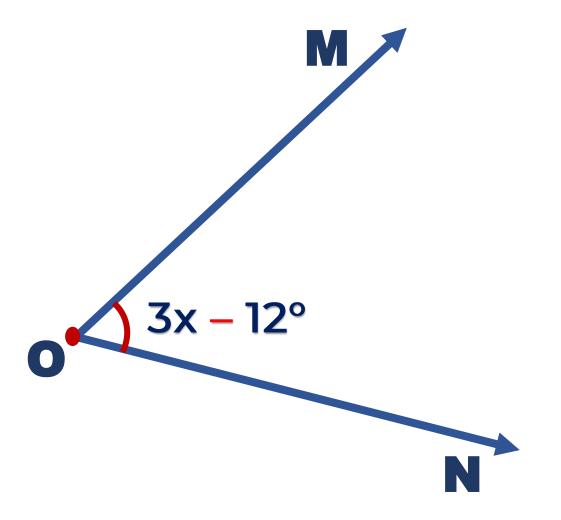
$$10x = 180^{\circ}$$

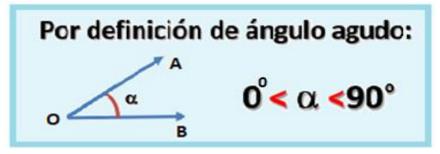
 $(Reemplazando)_{X = 10^{\circ}}$



3.En la figura, el ángulo MON es agudo. Hallar el mínimo

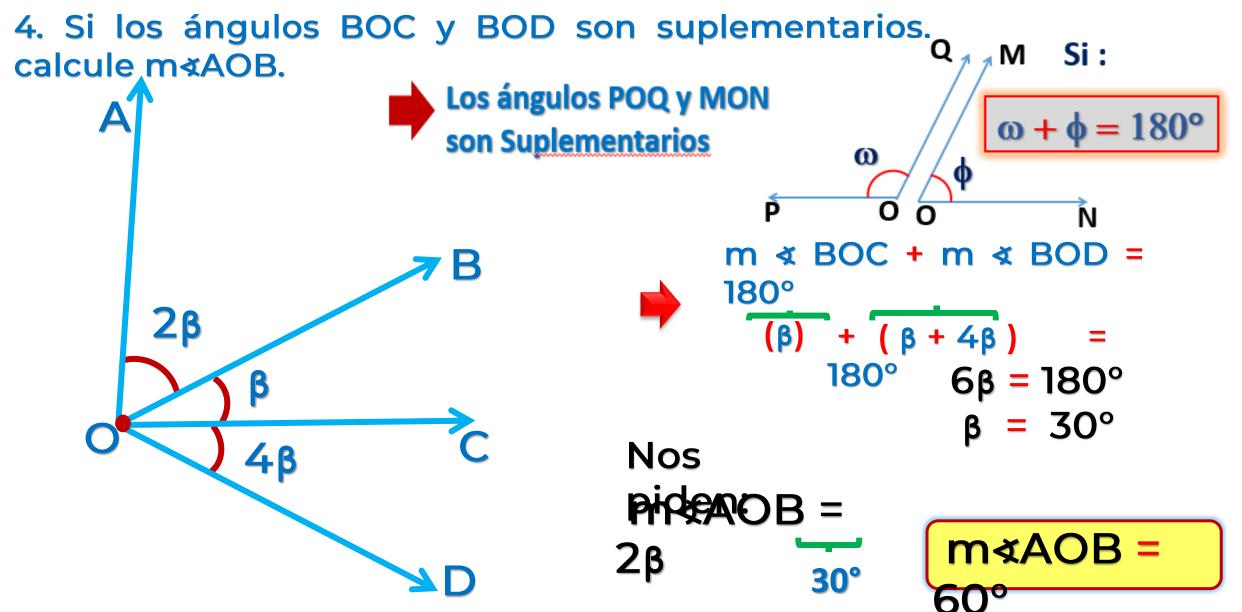
valor entero de x.



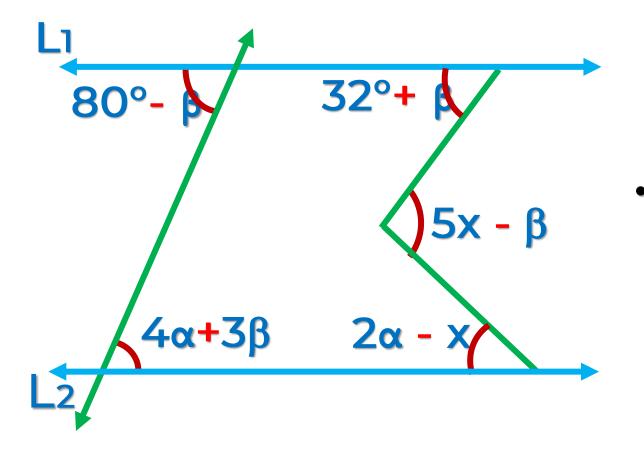


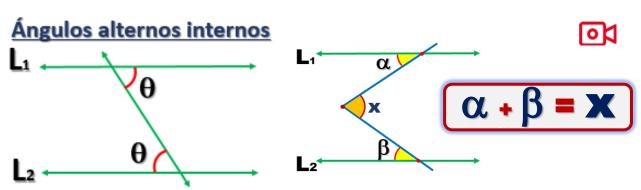






5. Si L1 // L2, halle el valor de x.





•
$$80^{\circ}$$
- $\beta = 4\alpha + 3\beta$
 $80^{\circ} = 4\alpha + 4\beta$
 $20^{\circ} = \alpha + 4\beta$
 $5x \beta = 2\alpha - x + 32^{\circ} + \beta$

$$6x = 2\alpha + 2\beta + 32^{\circ}$$
 $3x = (\alpha + \beta) + 36^{\circ} = (20^{\circ}) + 36^{\circ} = 36^{\circ}$
 $x = 36^{\circ}$

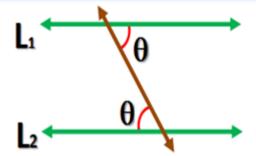


6.Si L1 // L2 // L3, halle el valor de x.

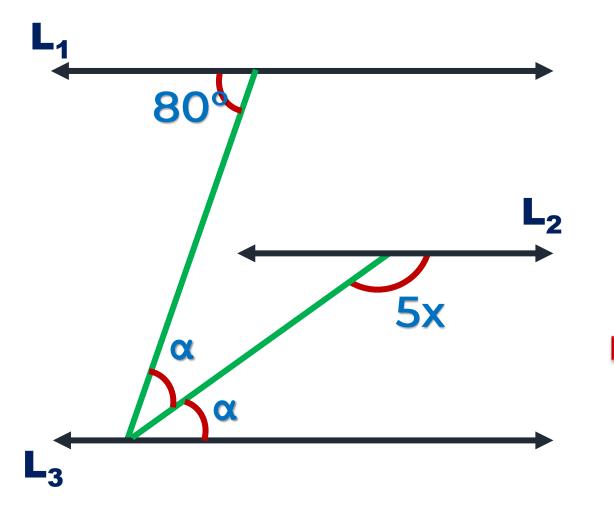




$$2\alpha = 80^{\circ}$$
$$\alpha = 40^{\circ}$$

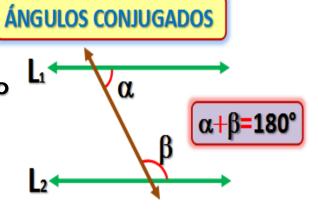


ÁNGULOS ALTERNOS INTERNOS



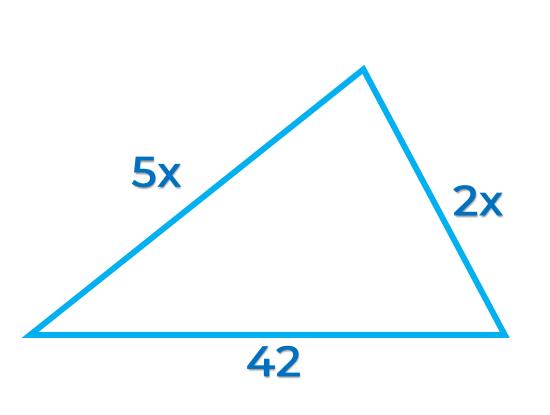


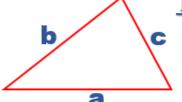
$$\alpha + 5x = 180^{\circ}$$
 $40^{\circ} + 5x = 180^{\circ}$
 $5x = 140^{\circ}$
 $x = 28^{\circ}$





7. Si los lados de un triangulo miden 5x , 2x y 42, halle la suma de los valores enteros que puede tomar x





Teorema de la existencia

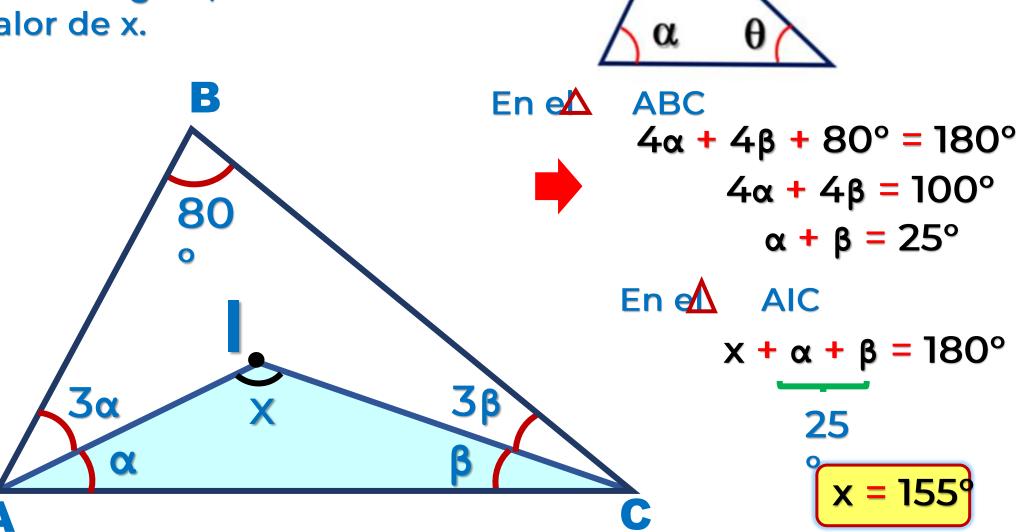
$$b-c < a < b+c$$

 $x = 7; \ 6+; 9; 10; 11; 12;$

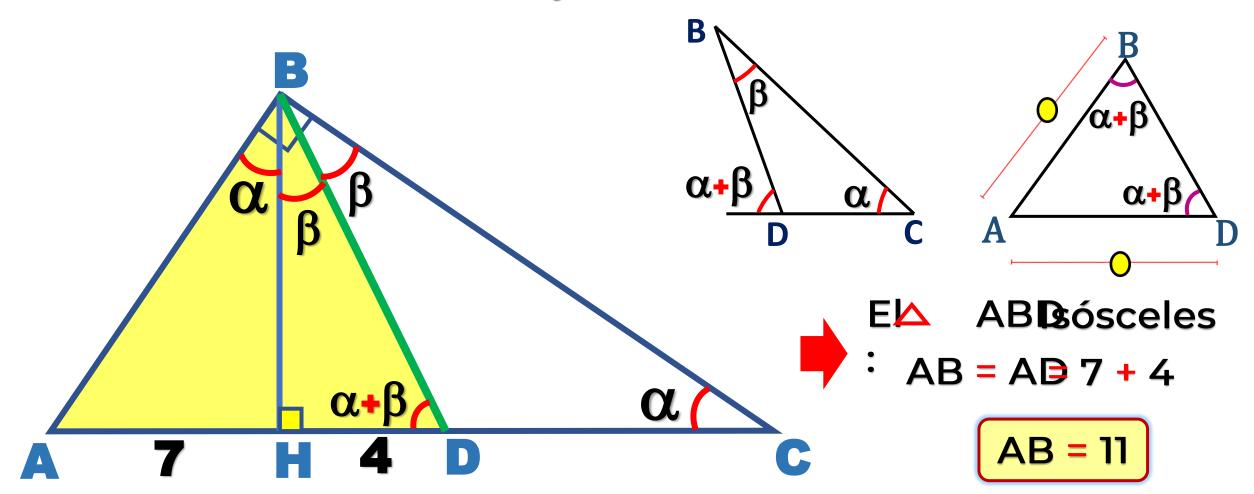


ω + φ + γ = 180°

8. En la figura, hallar el valor de x.

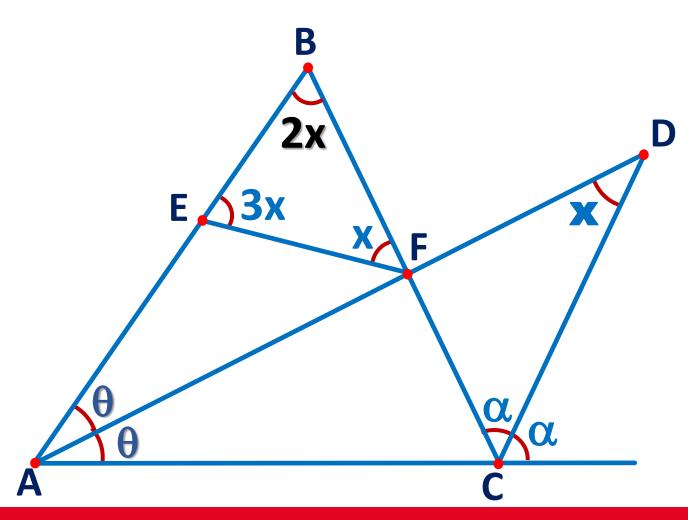


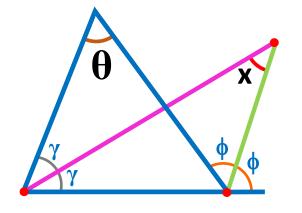
9.En un triángulo rectángulo ABC, recto en B, se traza la altura \overline{BH} y la bisectriz \overline{BD} del $\angle HBC$. Si AH = 7 y HD = 4, halle AB.





10.En la figura, calcular el valor de x.





Por teorema:

$$x = \frac{\theta}{2}$$

Entonces: m \(\delta \) ABC = 2

En el
$$\Delta$$
EBF: $3x + 2x + x = 180^{\circ}$
 $6x = 180^{\circ}$

$$x = 30^{\circ}$$