

GEOMETRÍA

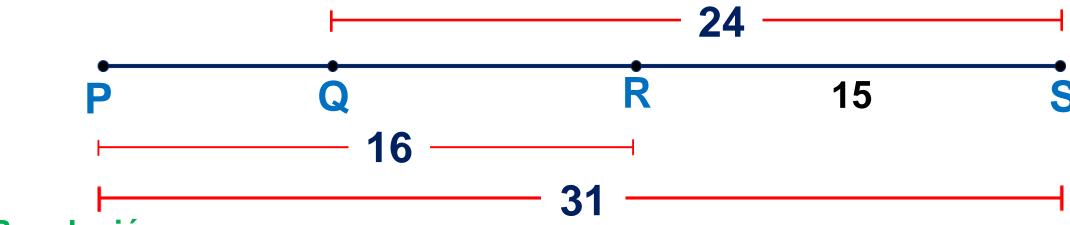
1st

SECONDARY

RETROALIMENTACIÓN



1. Considerando los datos de la figura mostrada, calcule QR.



Resolución

- Piden: QR
- Aplicando la adición de segmentos:

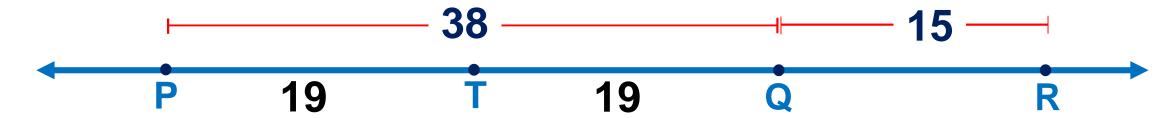
Del gráfico tenemos:

$$QS = QR + RS$$
$$24 = QR + 15$$

$$BC = 9 u$$



2. En la figura, T es punto medio de \overline{PQ} , halle TR.



Resolución

- Piden: TR
 - Si T es punto medio de PQ

$$\rightarrow$$
 PT = TQ = 19

Del gráfico:

$$TR = 19 + 15$$

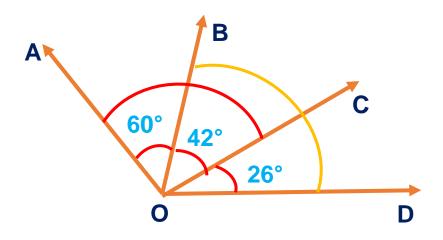
$$TR = 34u$$



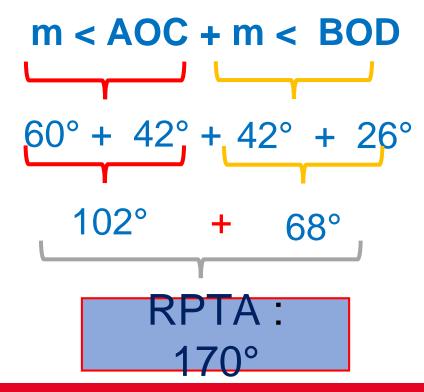
3. Se tiene los rayos consecutivos OA, OB, OC y OD. Si m<AOB = 60°, m<BOC = 42°, m< COD = 26°. Calcule m< AOC + m< BOD

Resolución

Graficamos y ubicamos los datos correspondientes

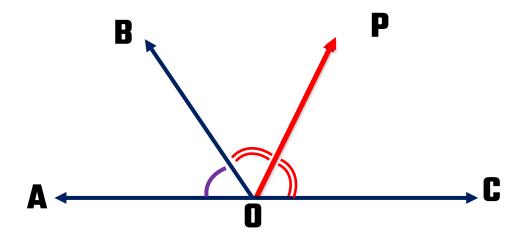


Nos piden

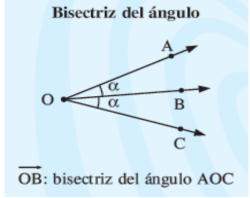




4. En la figura halle el valor de X, si OP es bisectriz del <BOC









$$40^{\circ} + 3x + 2x + 2x = 180^{\circ}$$

 $7x = 140^{\circ}$



5. Si el suplemento de 2x es igual al cuádruple del complemento de 3x. Halle el valor de x

$$S_{2x} = 4 \cdot C_{3x}$$

$$180^{\circ} - 2x = 4 \cdot (90 - 3x)$$

$$180^{\circ} - 2x = 360 - 12x$$

$$12x - 2x = 360 - 180^{\circ}$$

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

 $X = 18^{\circ}$

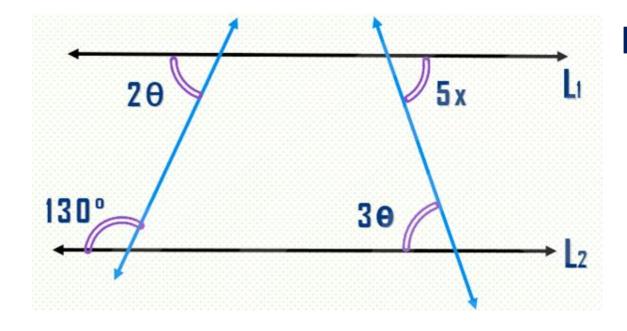


Suplemento (S)

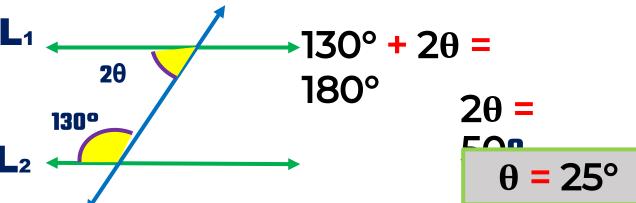
Complemento (C)

$$C_{\alpha} = 90^{\circ} - \alpha$$

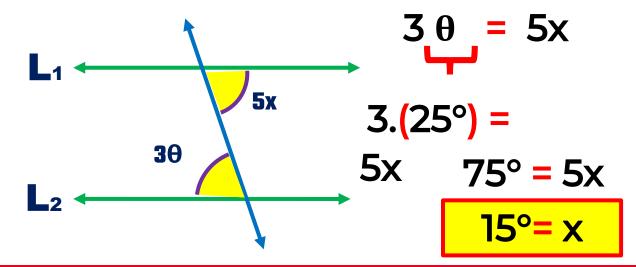
6. Si L_1 // L_2 , halle el valor de x.



Áng. conjugados

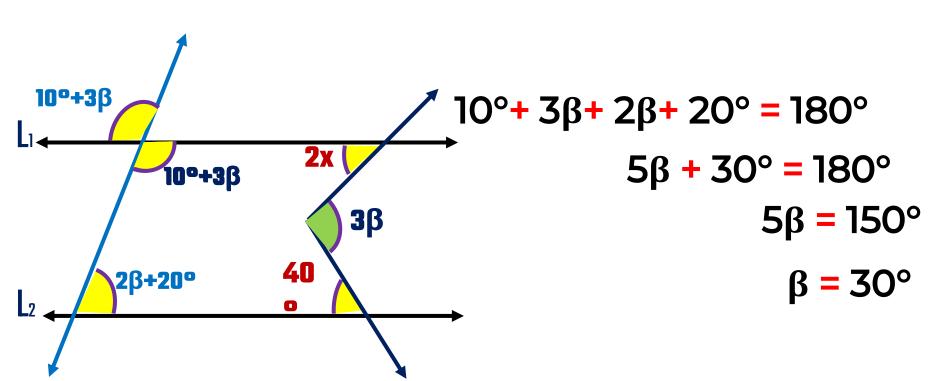


Áng. Alternos internos





7. Si $L_1 // L_2$, halle el valor de x.



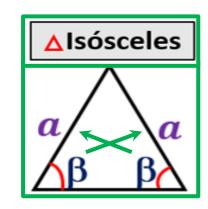
$$3 \beta = 2x + 40^{\circ}$$
 $3(30^{\circ}) = 2x + 40^{\circ}$
 $90^{\circ} = 2x + 40^{\circ}$
 $50^{\circ} = 2x$

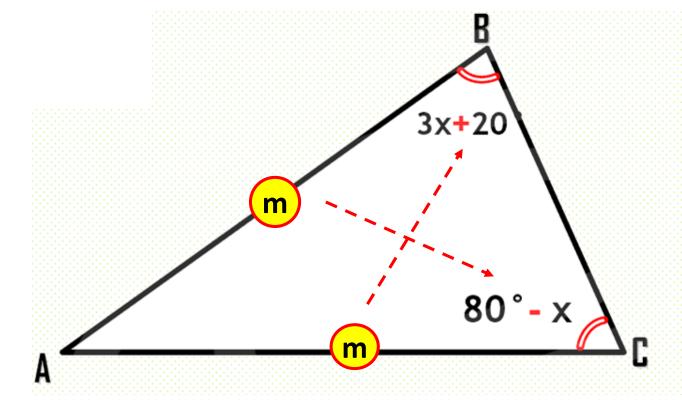
$$25^{\circ} = X$$



8. En el gráfico AB=AC, halle el valor de x.







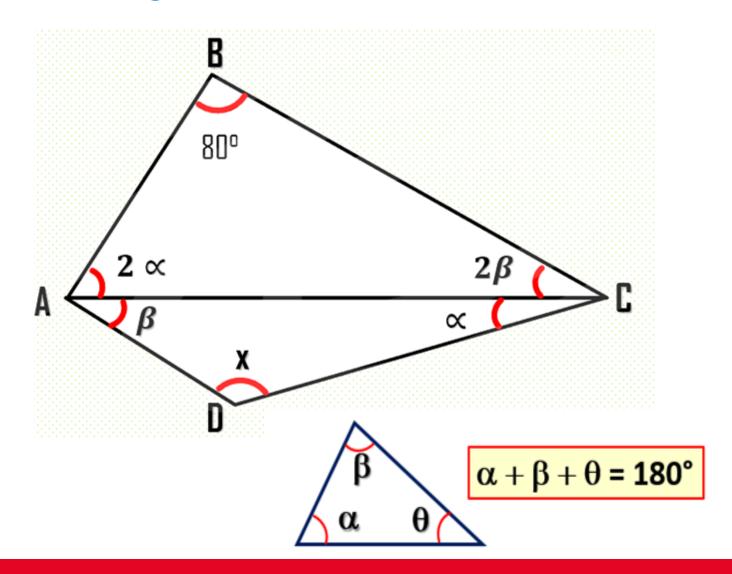
$$3x + 20^{\circ} = 80^{\circ}$$

$$- X \qquad 4x = 60^{\circ}$$

$$x = 15^{\circ}$$



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







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

