

GEOMETRÍA

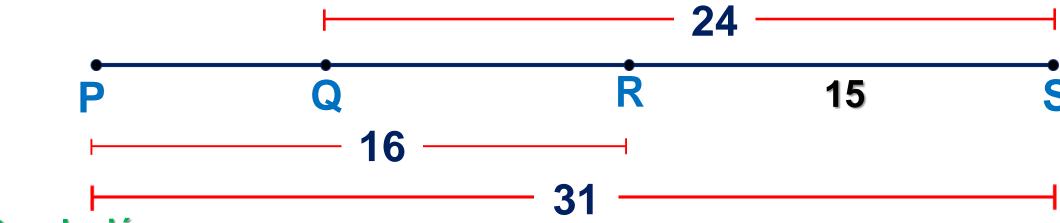
1st

SECONDARY

RETROALIMENTACIÓN



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



Resolución

- Piden: QR
- Aplicando la adición de segmentos:

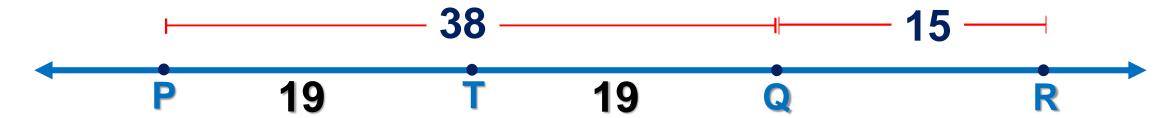
Del gráfico tenemos:

$$QS = QR + RS$$

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:

$$TR = 19 + 15$$

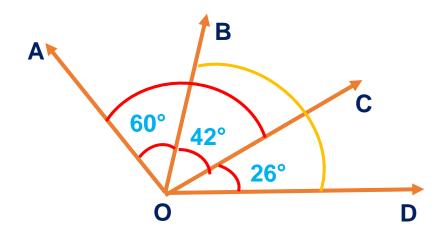
$$TR = 34u$$



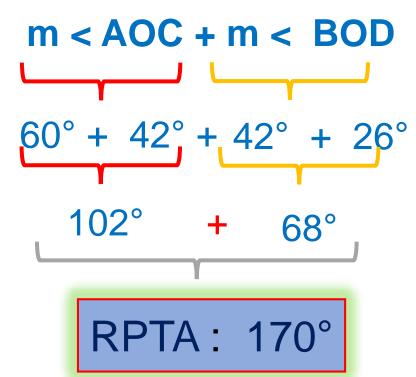
3. Se tiene los rayos consecutivos OA, OB, OC y OD. Si m<AOB = 60°, m<BOC = 42°, m< COD = 26°. Calcule m< AOC + m< BOD

Resolución

Graficamos y ubicamos los datos correspondientes



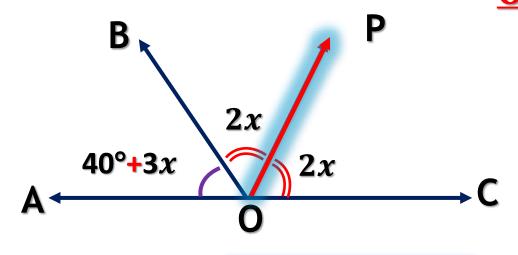
Nos piden

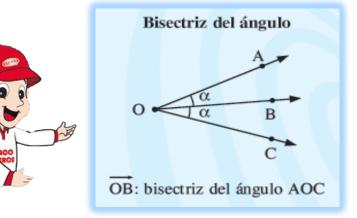




4. En la figura halle el valor de X, si OP es bisectriz del <BOC

0P es bisectriz del ₄BOC.





En la
$$AC$$
.
 $40^{\circ} + 3x + 2x + 2x = 180^{\circ}$
 $7x = 140^{\circ}$



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)

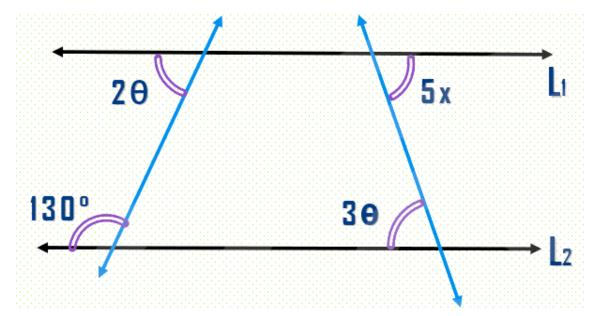
$$S_{\alpha} = 180^{\circ} - \alpha$$

Complemento (C)

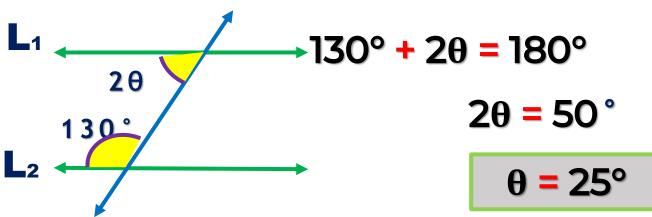
$$C_{\alpha} = 90^{\circ} - \alpha$$



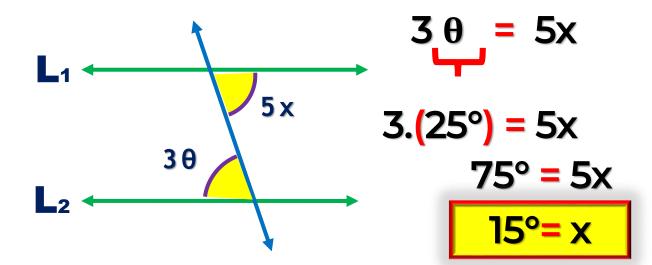
6. Si L_1 // L_2 , halle el valor de x.



Áng. conjugados

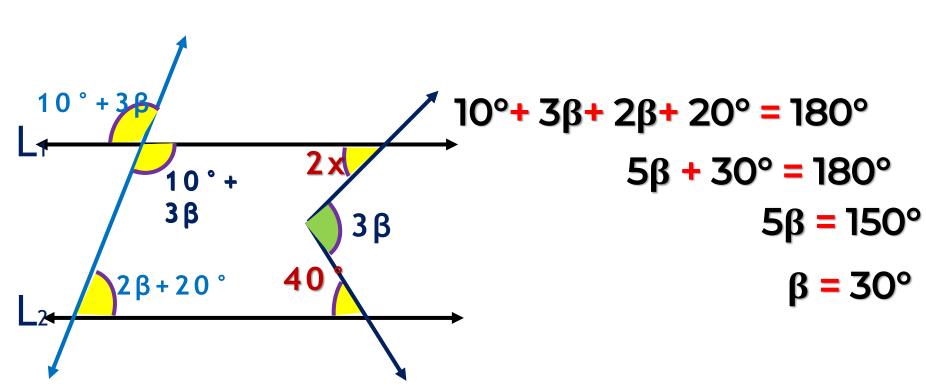


Áng. Alternos internos





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

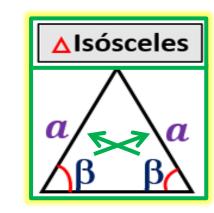


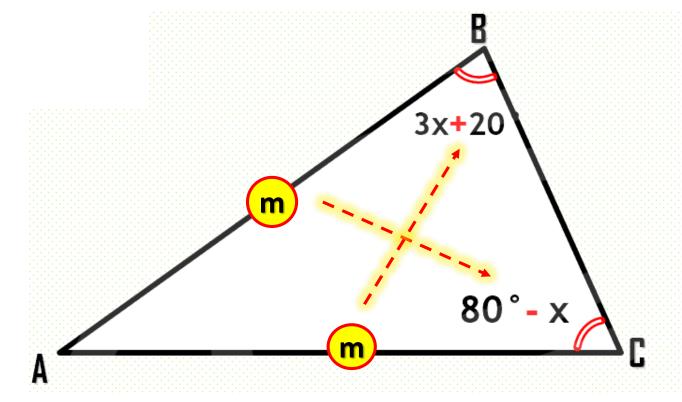
$$25^{\circ} = X$$



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







$$m \triangleleft ABC = m \triangleleft ACB$$

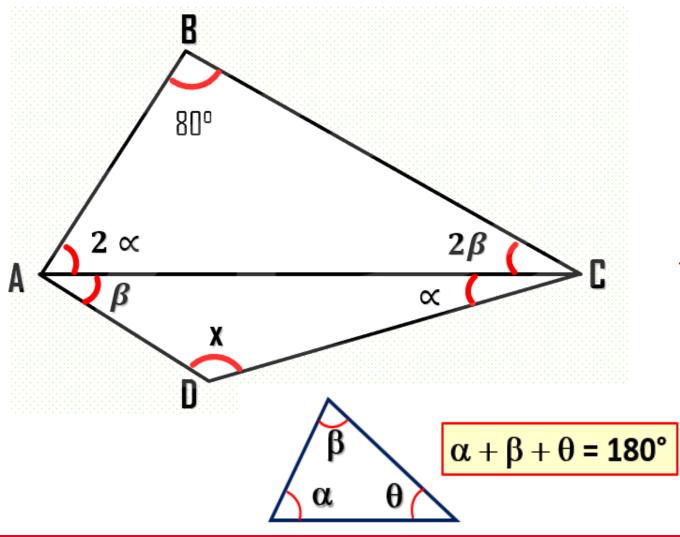
$$3x + 20^{\circ} = 80^{\circ} - x$$

 $4x = 60^{\circ}$

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



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



En el AABC

$$2 \propto +2 \beta + 80^{\circ} = 180^{\circ}$$
$$2 \propto +2 \beta = 100^{\circ}$$
$$\propto +\beta = 50^{\circ}$$

En el AADC

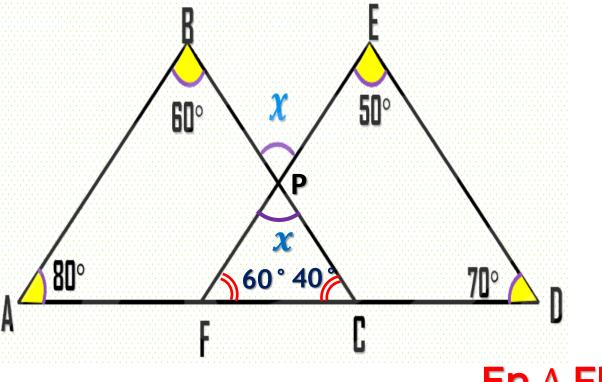
$$\propto + \beta + x = 180^{\circ}$$

$$50^{\circ} + x = 180^{\circ}$$

$$X = 130^{\circ}$$



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



En A ABC

En ∆ EFD

En A FPC

$$60^{\circ} + 40^{\circ} + x = 180^{\circ}$$

 $100^{\circ} + x = 180^{\circ}$

$$x = 80^{\circ}$$