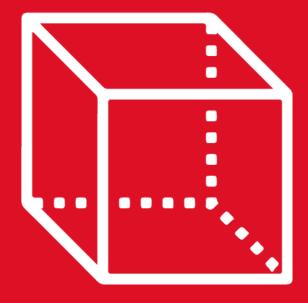


GEOMETRÍA

1st secondary

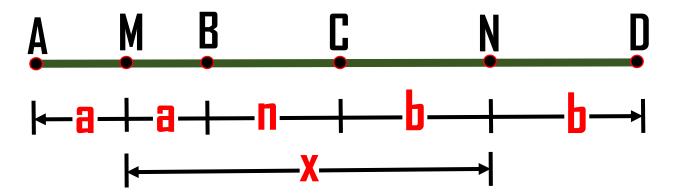


Asesoría





1.En el grafico mostrado, AC + BD = 24cm. Halle el valor de x.



Dato:
$$AC + BD = 24$$

 $2a + n + 2b = 24$
 $2a + 2n + 2b = 24$
 $a + n + b = 12$

Nos piden:
$$X$$

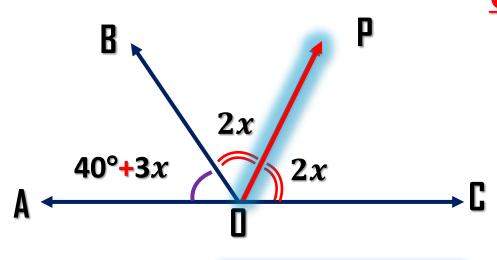
$$x = a + n + b$$

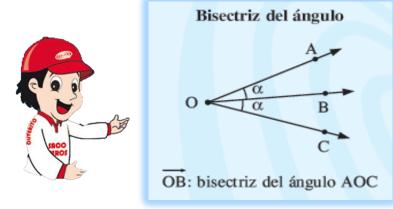
$$12$$

$$X = 12$$



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





OP es bisectriz del 4BOC.

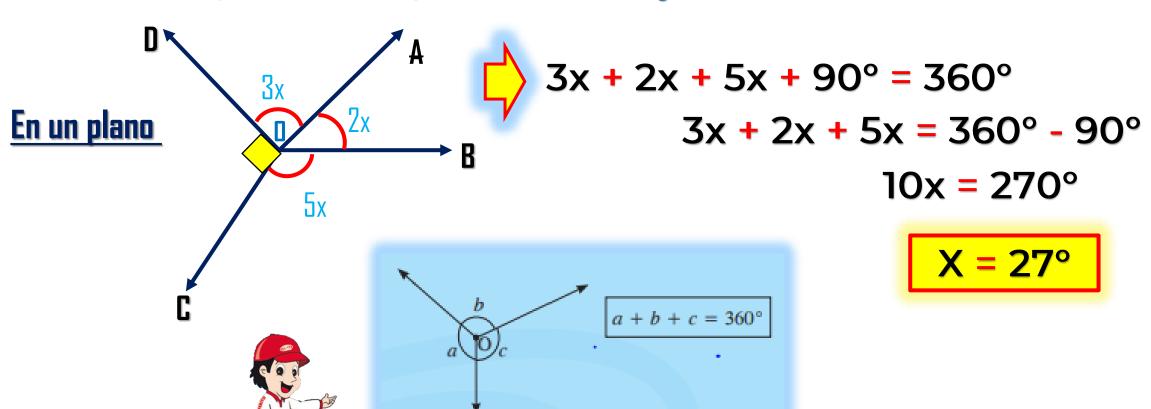
En la
$$\overline{AC}$$
.
 $40^{\circ} + 3x + 2x + 2x = 180^{\circ}$

$$7x = 140^{\circ}$$

$$x = 20^{\circ}$$



3.En un plano se trazan los rayos OA,OB,OC y OD, tal que m<AOB=2x,m<BOC=5x, m<COD=90° y m<DOA = 3x. Halle el valor de x





4.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)

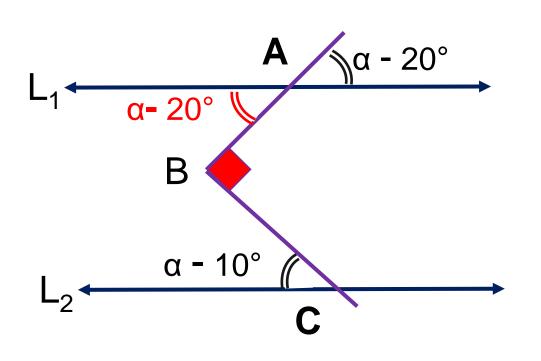
$$S_{\alpha} = 180^{\circ} - \alpha$$

Complemento (C)

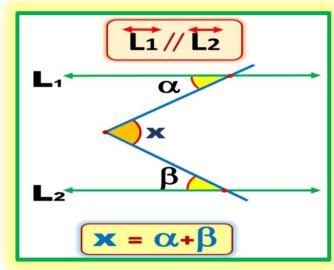
$$C_{\alpha} = 90^{\circ} - \alpha$$



5.En el gráfico $L_1 // L_2$, halle el valor de α , si m<B = 90°.



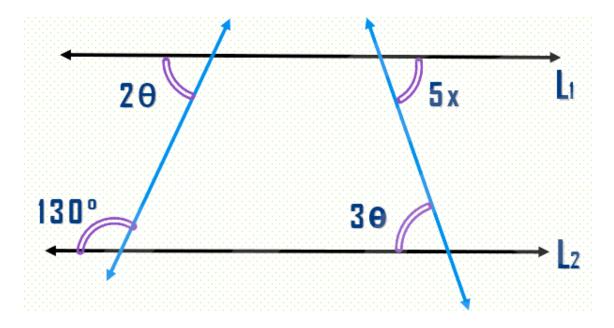




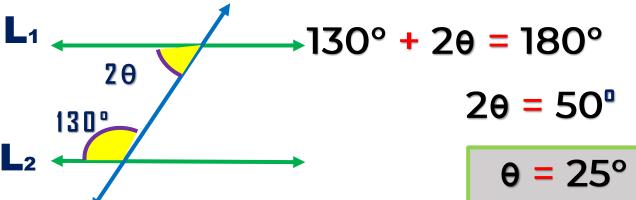
$$\alpha - 20^{\circ} + \alpha - 10^{\circ} = 90^{\circ}$$
 $2\alpha - 30^{\circ} = 90^{\circ}$
 $2\alpha = 120^{\circ}$

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

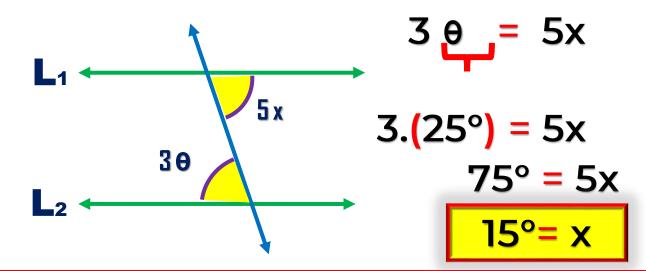
6.Si $L_1 // L_2$, halle el valor de x.



Áng. conjugados

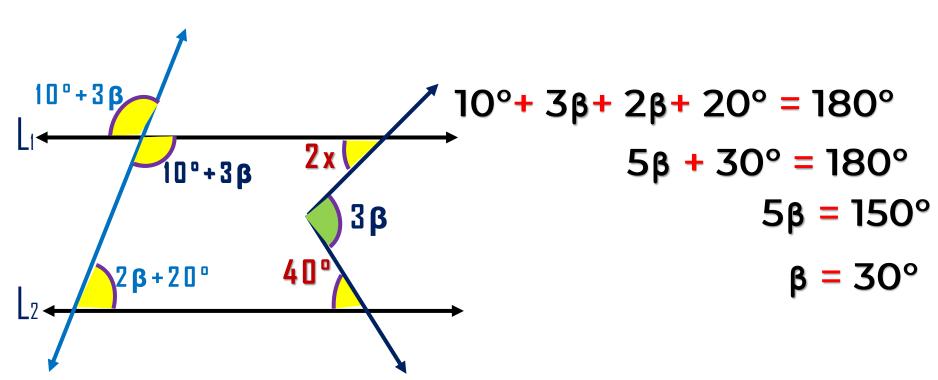


Áng. Alternos internos





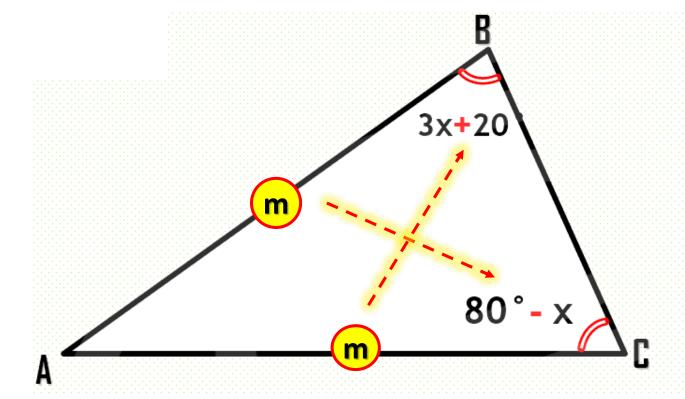
7. Si $L_1 // L_2$, halle el valor de x.



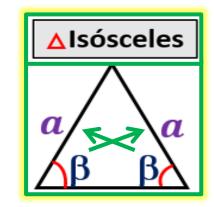
$$25^{\circ} = X$$

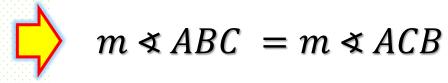


8. En el gráfico AB=AC, halle el valor de x.









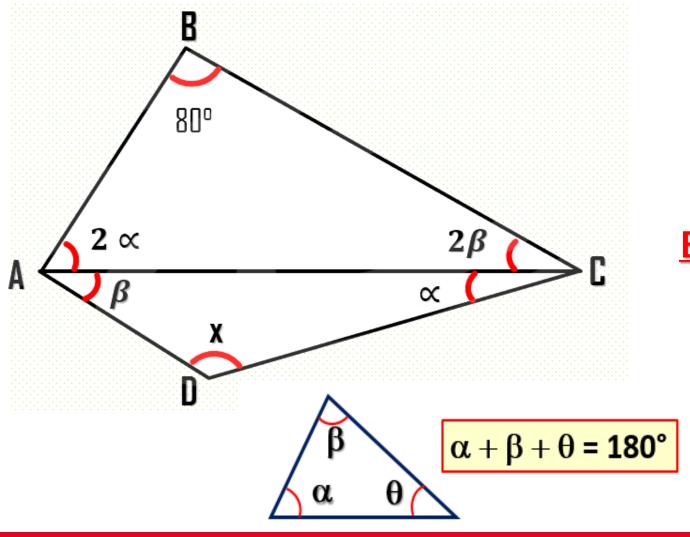
$$3x + 20^{\circ} = 80^{\circ} - x$$

$$4x = 60^{\circ}$$

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



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 A ADC

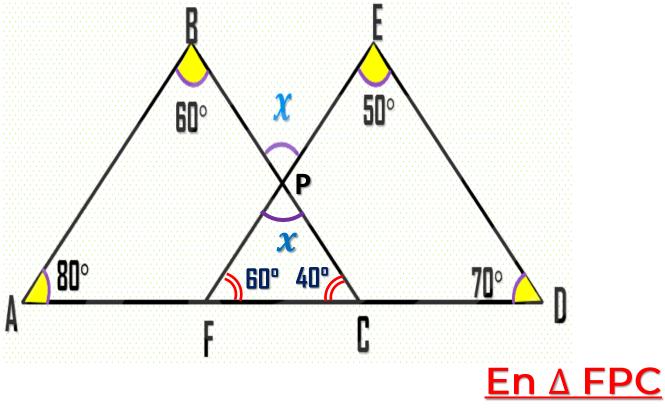
$$\propto +\beta + x = 180^{\circ}$$

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

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



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



En A ABC

En <u>A</u> EFD

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

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

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