

# GEOMETRÍA

1st

**SECONDARY** 

RETROALIMENTACIÓN

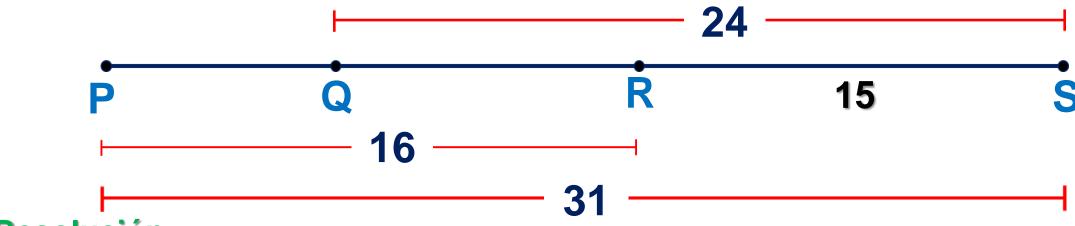




#### **HELICO | PRACTICE**



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



## <u>Resolución</u>

- Piden: QR
- Aplicando la adición de segmentos:

Del gráfico tenemos:

$$QS = QR + RS$$

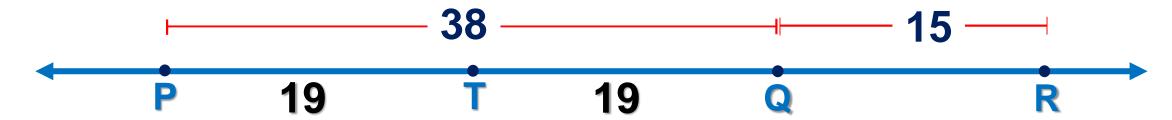
$$24 = QR + 15$$

$$BC = 9 u$$

#### **HELICO | PRACTICE**



## 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:

$$TR = 19 + 15$$

$$TR = 34u$$

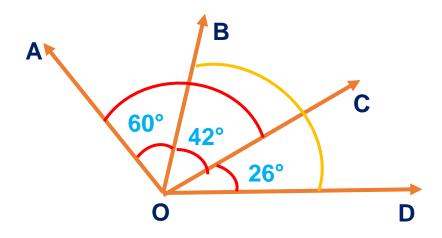
#### **HELICO | PRACTICE**



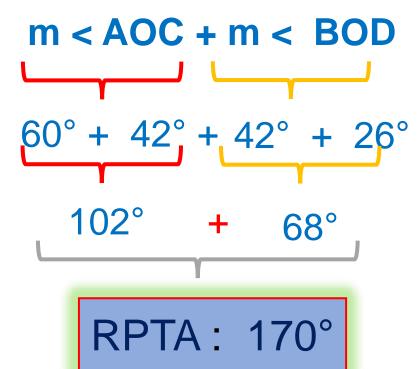
3. Se tiene los rayos consecutivos OA, OB, OC y OD. Si m<AOB = 60°, m<BOC = 42°, m< COD = 26°. Calcule m< AOC + m< BOD

## Resolución

Graficamos y ubicamos los datos correspondientes

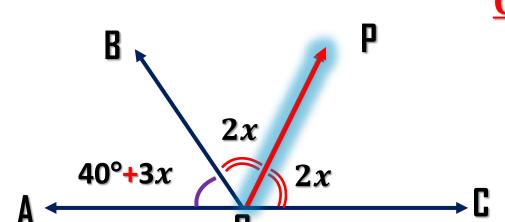


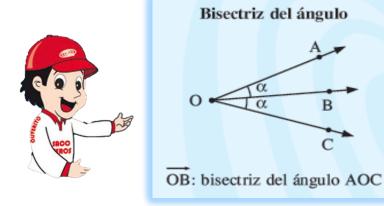
Nos piden



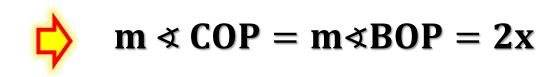


## 4. En la figura halle el valor de X, si OP es bisectriz del <BOC





## OP es bisectriz del ∡BOC.



En la 
$$\overrightarrow{AC}$$
.

$$40^{\circ} + 3x + 2x + 2x = 180^{\circ}$$
  
 $7x = 140^{\circ}$ 



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)

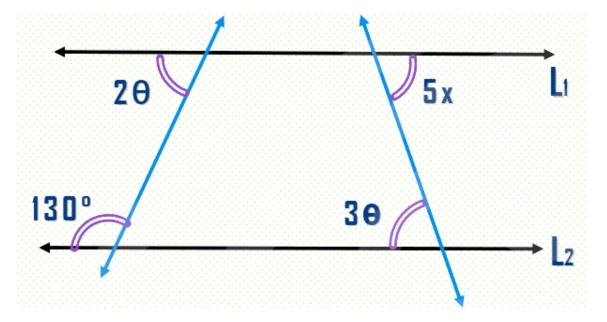
$$S_{\alpha} = 180^{\circ} - \alpha$$

Complemento (C)

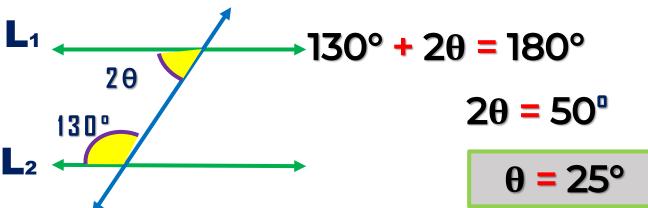
$$C_{\alpha} = 90^{\circ} - \alpha$$



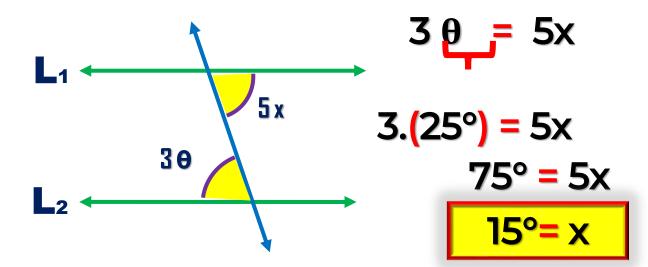
## 6. Si $L_1 / L_2$ , halle el valor de x.



## Áng. conjugados

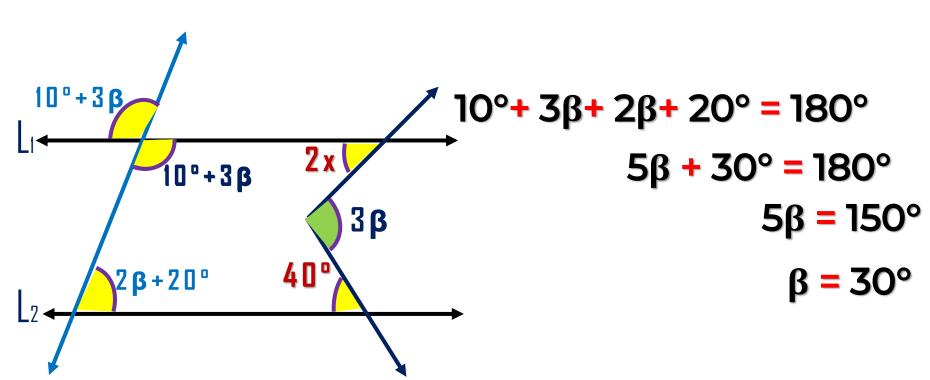


## **Áng. Alternos internos**





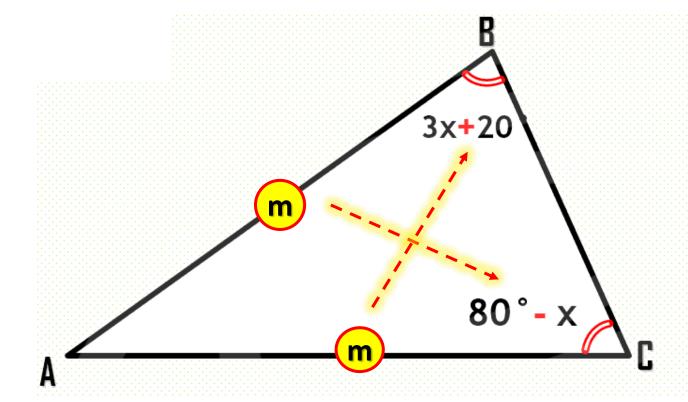
## 7. Si $L_1$ // $L_2$ , halle el valor de x.



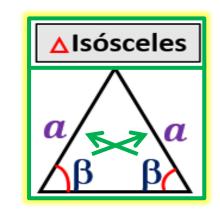
$$25^{\circ} = X$$

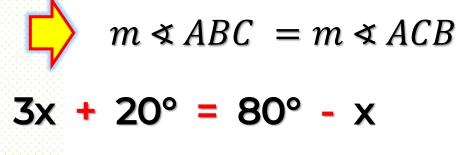


## 8. En el gráfico AB=AC, halle el valor de x.





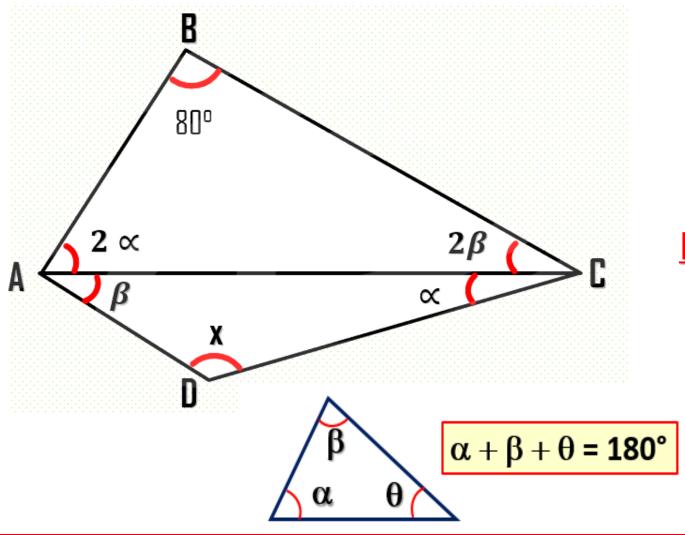




$$4x = 60^{\circ}$$



## 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

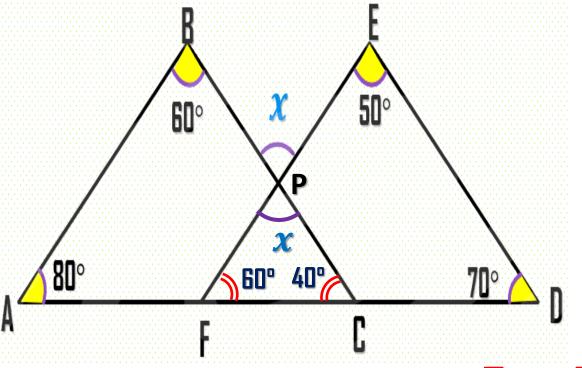
$$\propto + \beta + x = 180^{\circ}$$

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

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



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



## En A ABC

## En ∆ EFD

$$50^{\circ} + 70^{\circ} + m \not \in F = 180^{\circ}$$
  
 $120^{\circ} + m \not \in F = 180^{\circ}$   
 $m \not \in F = 60^{\circ}$ 

### En A FPC

$$60^{\circ} + 40^{\circ} + x = 180^{\circ}$$
  
 $100^{\circ} + x = 180^{\circ}$ 

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