

# GEOMETRÍA Capítulo 4



SECONDARY

RECTAS PARALELAS





## **MOTIVATING | STRATEGY**













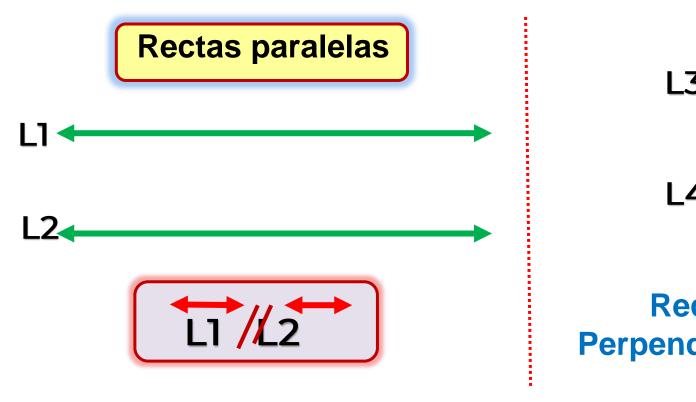


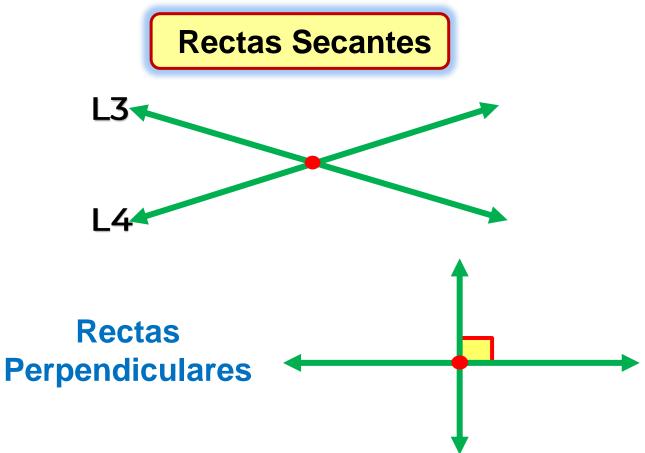




# ÁNGULOS ENTRE DOS RECTAS PARALELAS Y UNA SECANTE

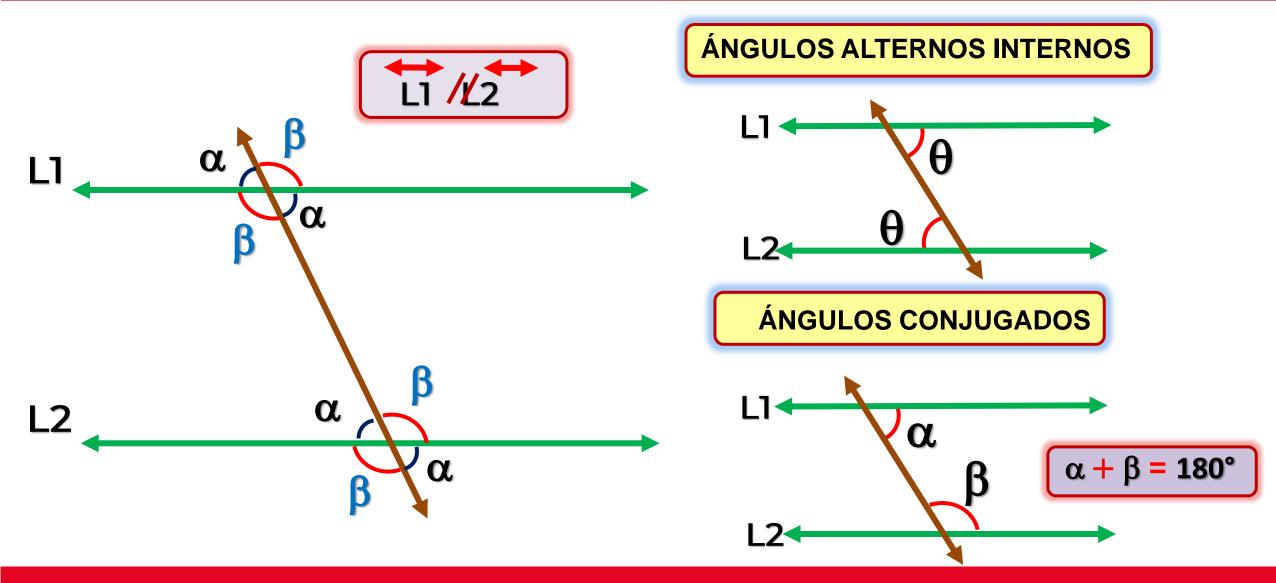
RECTAS PARALELAS: Son aquellas rectas coplanales que no tienen ningún punto en común.





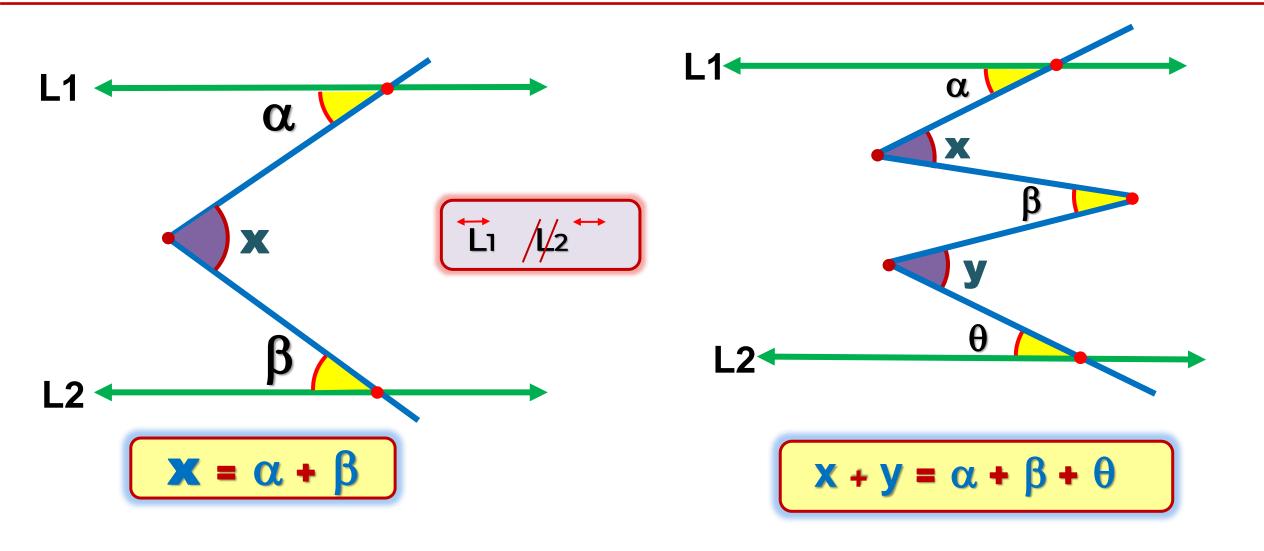


# ÁNGULOS FORMADOS POR DOS RECTAS PARALELAS Y UNA SECANTE







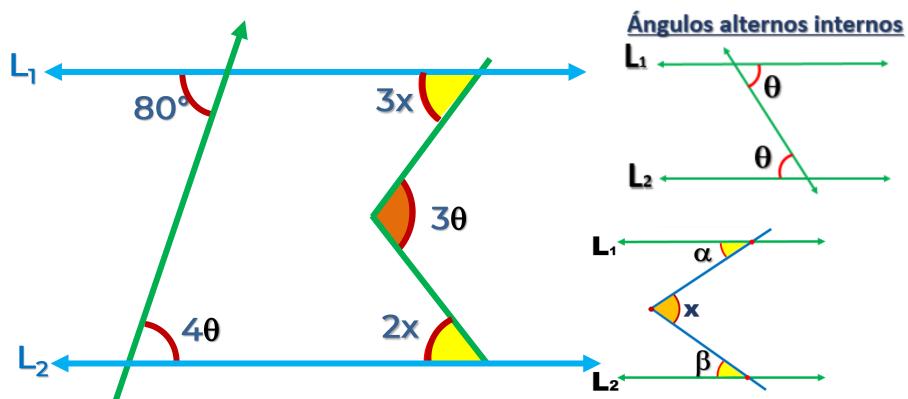


#### HELICO | PRACTICE



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





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

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

$$3x + 2x = 3\theta$$

$$5x = 3()20^{\circ}$$

$$5x = 60^{\circ}$$

$$x = 12^{\circ}$$

#### HELICO | PRACTICE

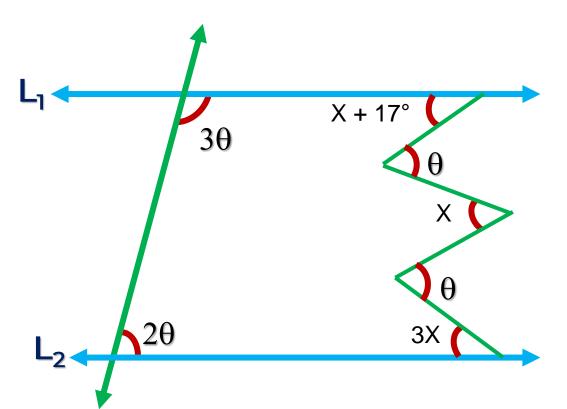


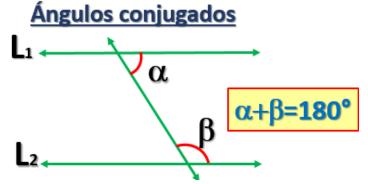


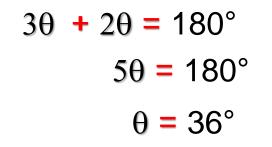
# En la figura, L1//L2. Halle el valor de X.

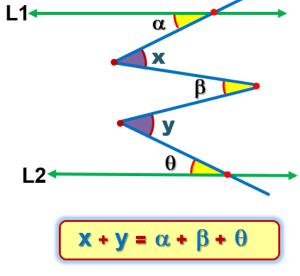








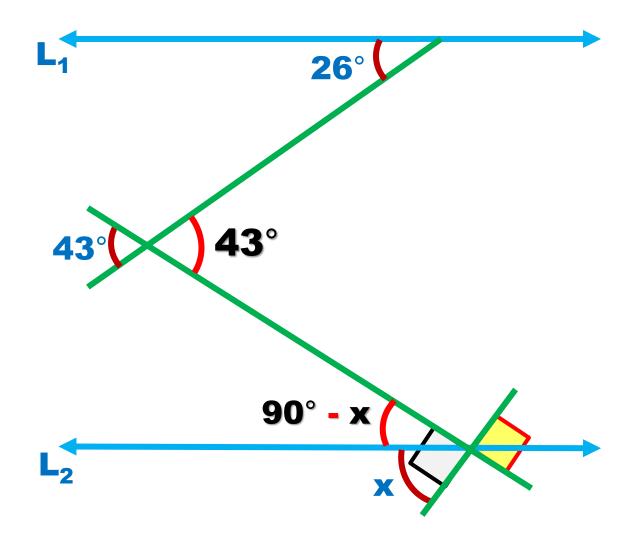




$$x + 17 + x + 3x = \theta + \theta$$
  
 $5x + 17 = 2\theta$   
 $5x = 2(36) - 17$ 

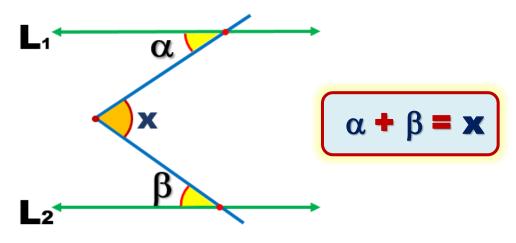


3. Si L1//L2, halle el valor de x.





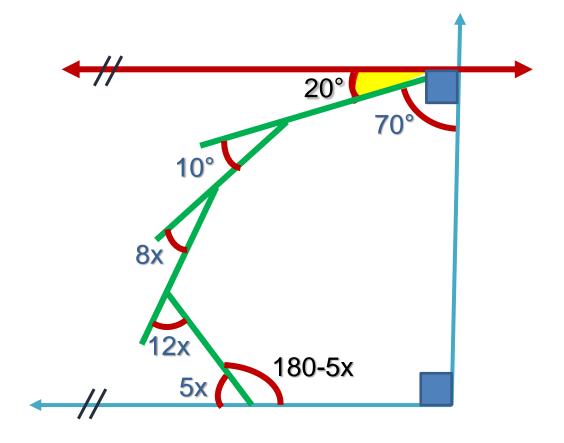




$$26^{\circ} + 90^{\circ} - x = 43^{\circ}$$
  
 $116^{\circ} - x = 43^{\circ}$ 



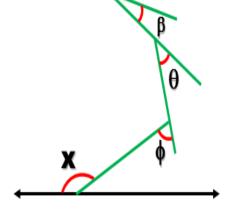
### 4. Halle el valor de x.



## **RESOLUCIÓN**

**RECORDAR** 

$$\mathbf{x} = \alpha + \beta + \theta + \phi$$



$$20^{\circ} + 10^{\circ} + 8x + 12x = 180^{\circ} - 5x$$

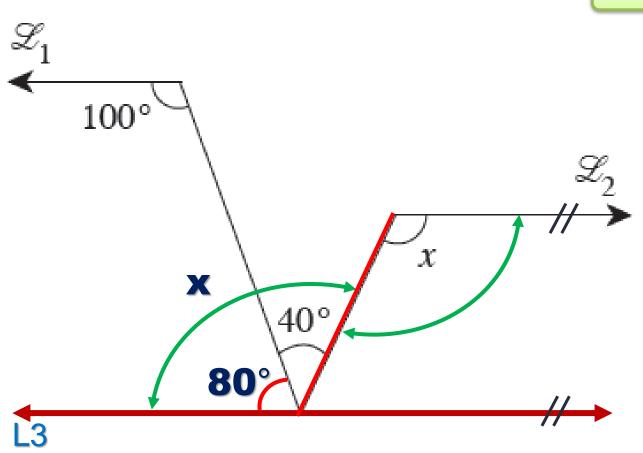
$$25x = 150^{\circ}$$

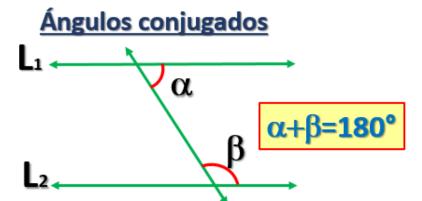
$$x = 6^{\circ}$$



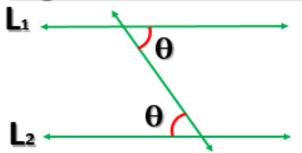
5. Si L1 // L2, halle el valor de x.









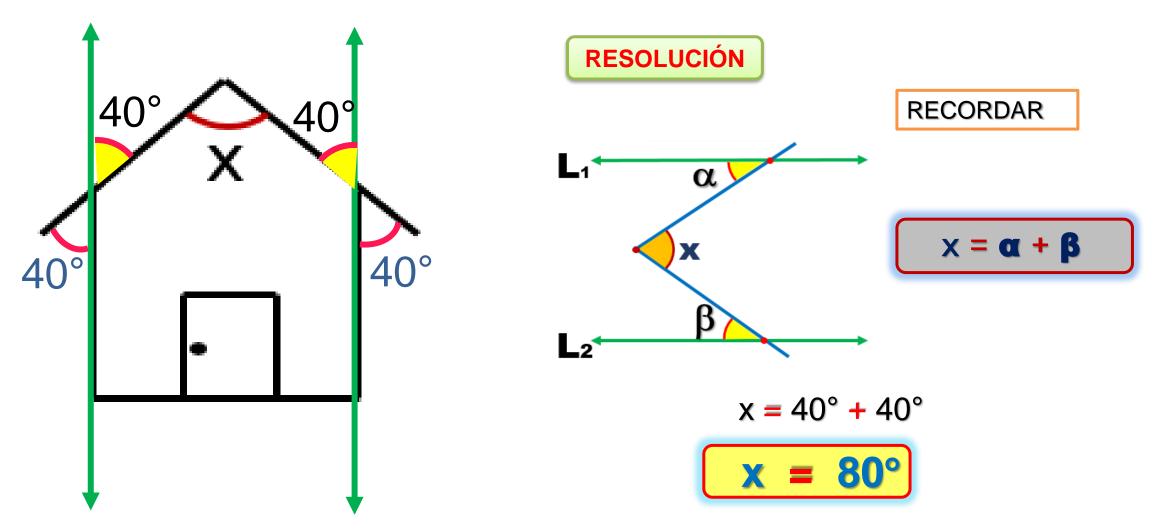


$$x = 80^{\circ} + 40^{\circ}$$

#### HELICO | PRACTICE



6. En la figura se muestra el frontis de una casa. Si el techo forma ángulos iguales a 40° con las paredes laterales, halle la medida del ángulo que forman dichos techos.



7. La figura representa el corte transversal de la estructura del techo de un depósito de mercancías. Halle el valor de a para construir dicho techo.

