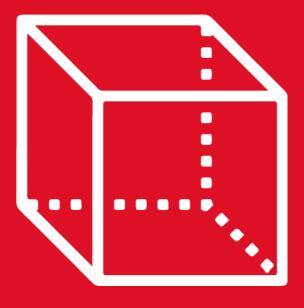


# GEOMETRÍA Capítulo 4

Sesión 1



**RECTAS PARALELAS** 





#### **MOTIVATING | STRATEGY**

















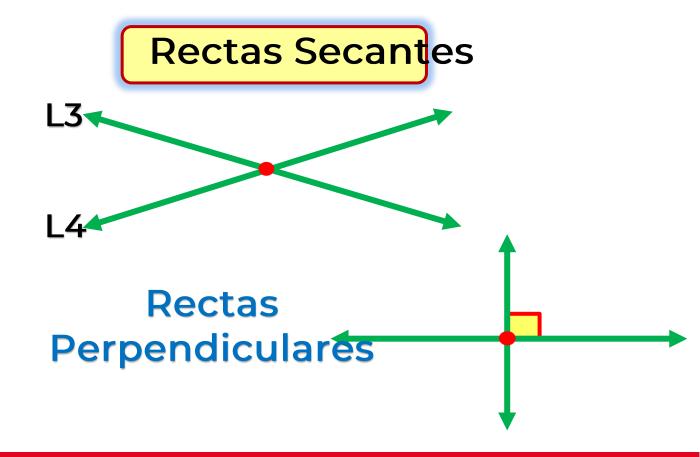


# ÁNGULOS ENTRE DOS RECTAS PARALELAS Y

#### UNA SECANTE

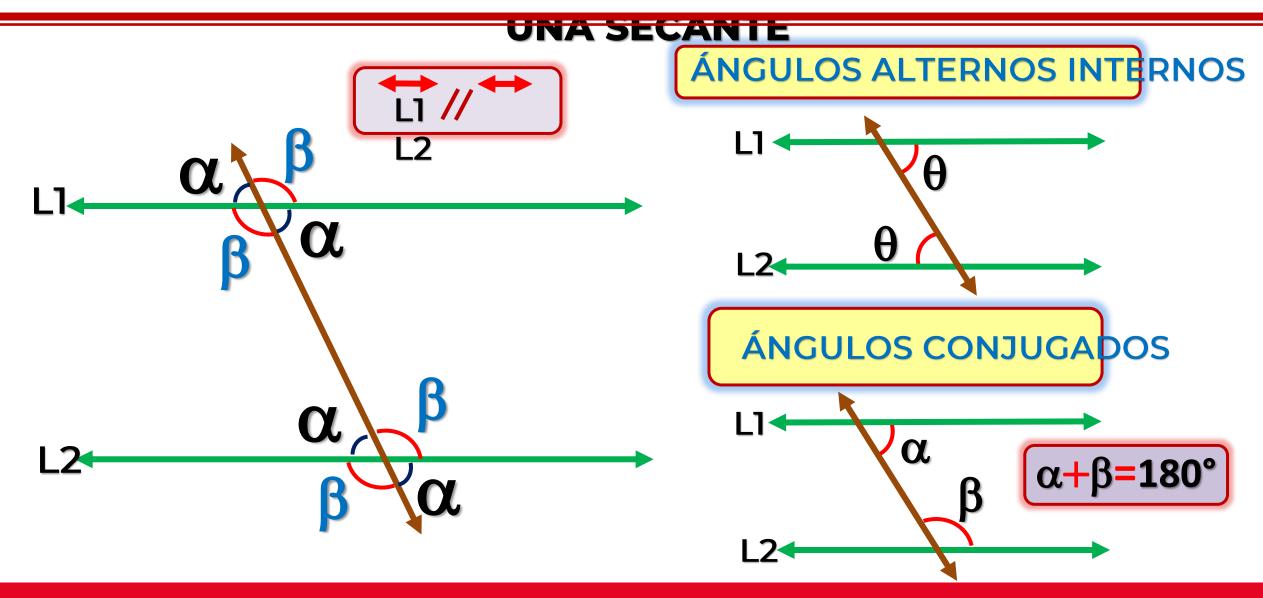
RECTAS PARALELAS: Son aquellas rectas coplanales que no tienen

ningún punto en común. Rectas paralelas



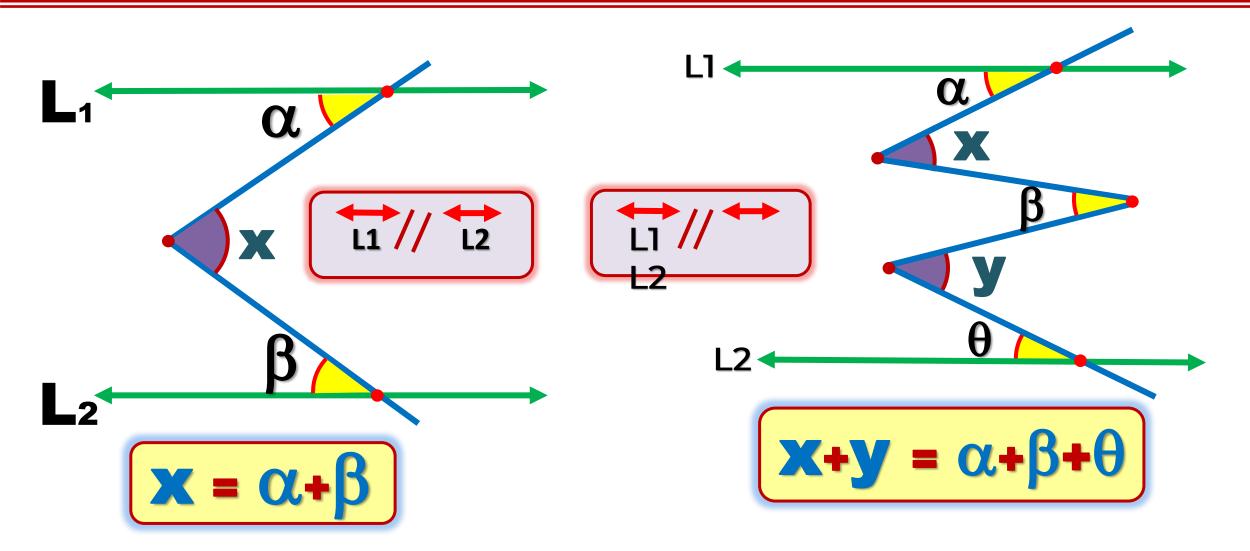


#### ÁNGULOS FORMADOS POR DOS RECTAS PARALELAS Y



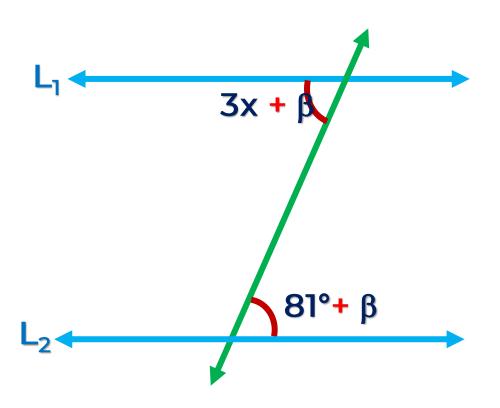


#### **TEOREMAS**





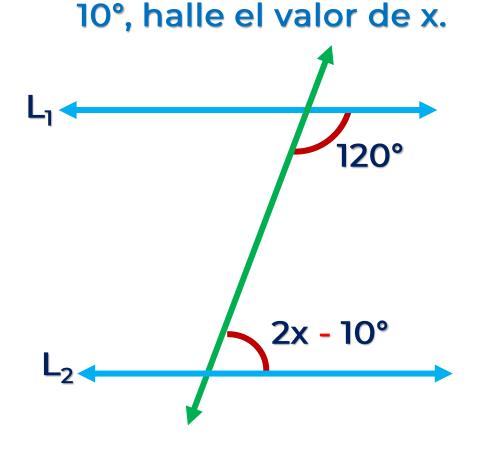
1. Sean dos rectas paralelas L1 y L2, que intersecadas por una recta secante forman los ángulos alternos internos 3x+β y 81°+β, halle el valor de x.

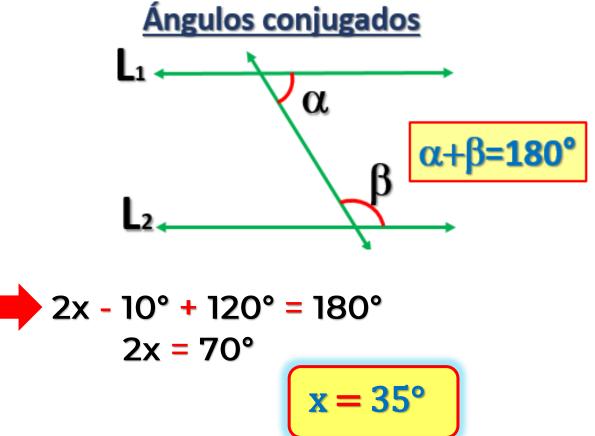






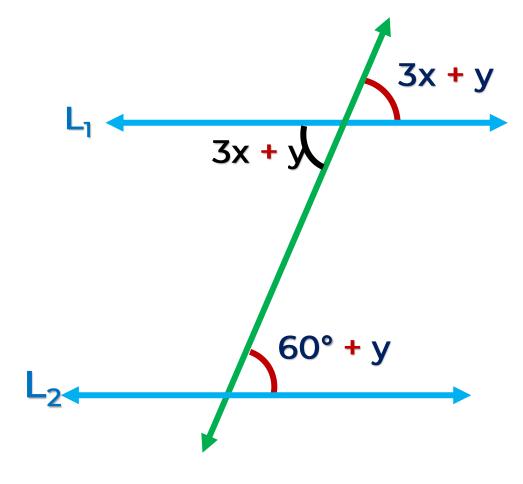
2. Dados dos rectas paralelas y una recta secante forman los ángulos internos a un mismo lado de la recta secante que miden 120° y 2x-



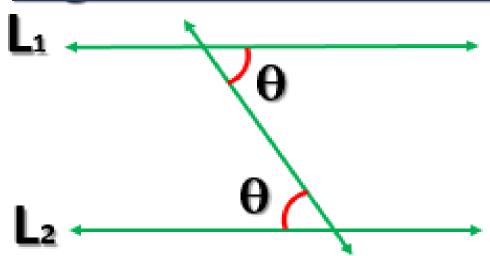




## 3. Si L1//L2, halle el valor de x.



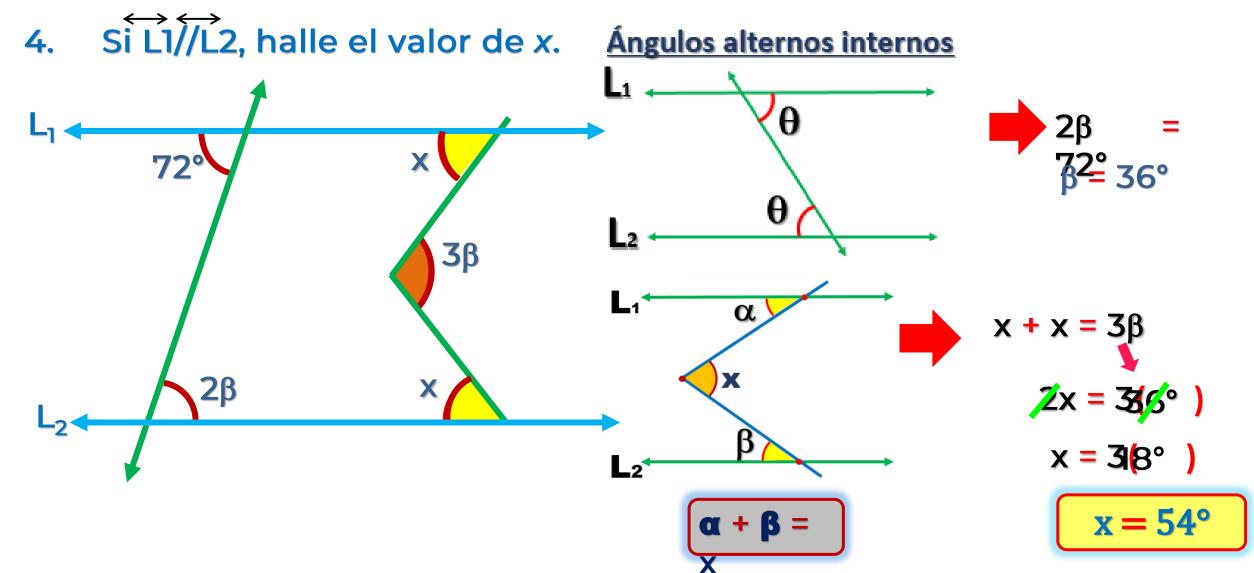
# Ángulos alternos internos



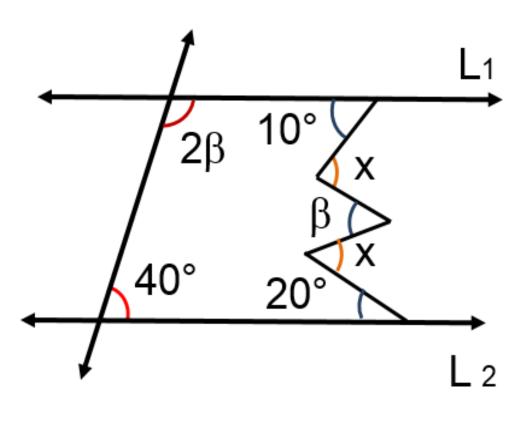
$$3x + y = 60$$
 + y  
 $3x = 60$ °

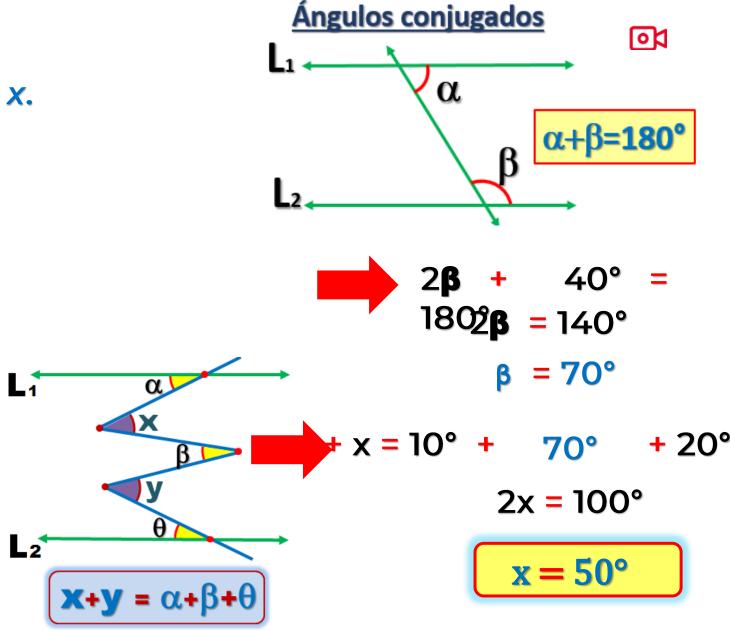
$$x = 20^{\circ}$$





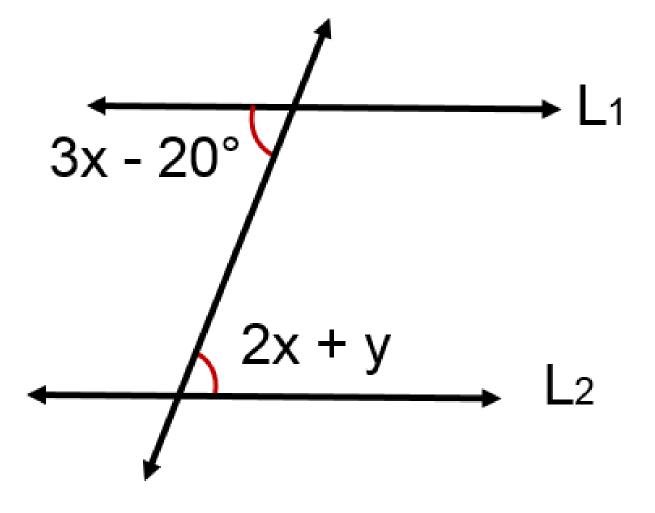
# 5. Si L1 $/\!\!/ L2$ , halle el valor de x.



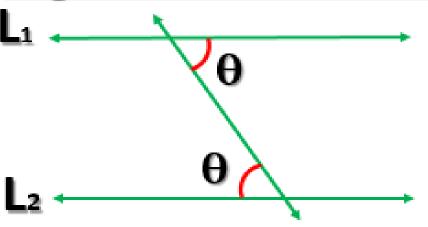




6. Si L1//L2, halle el valor de x - y.



### Ángulos alternos internos

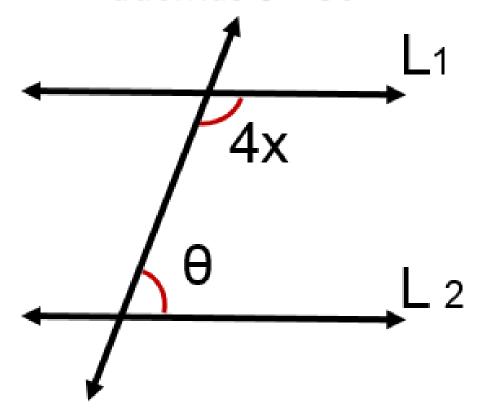


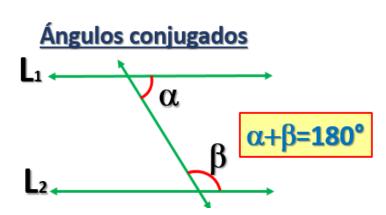


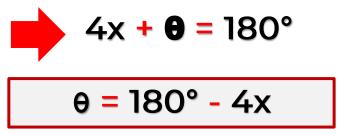
$$x - y = 20^{\circ}$$



# 7. Si L1 // L2, halle el menor valor de x, además 0 < 80°









8. 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 án ulo que formar dichos techos.

