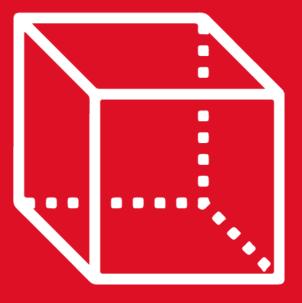
GEOMETRÍA Capítulo 4

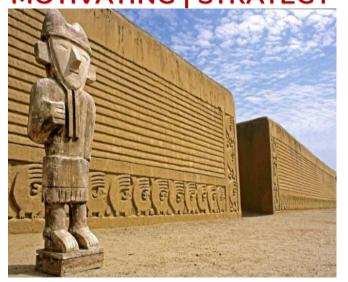
1st SECONDARY

Rectas paralelas





MOTIVATING | STRATEGY











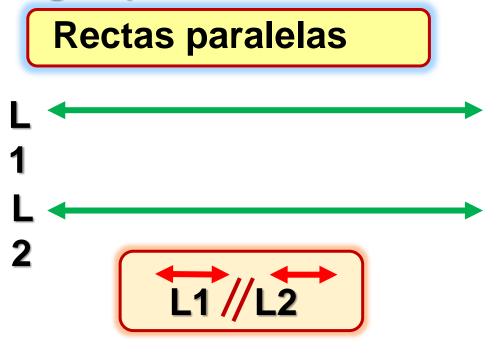


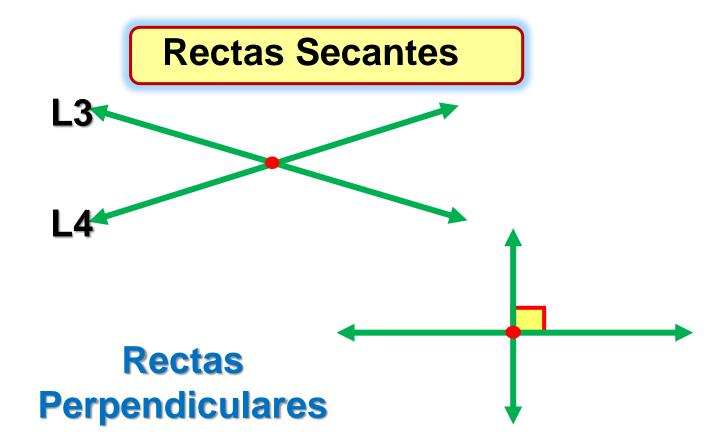


ÁNGULOS ENTRE DOS RECTAS PARALELAS Y UNA SECANTE

RECTAS PARALELAS: Son aquellas rectas coplanales que no tienen

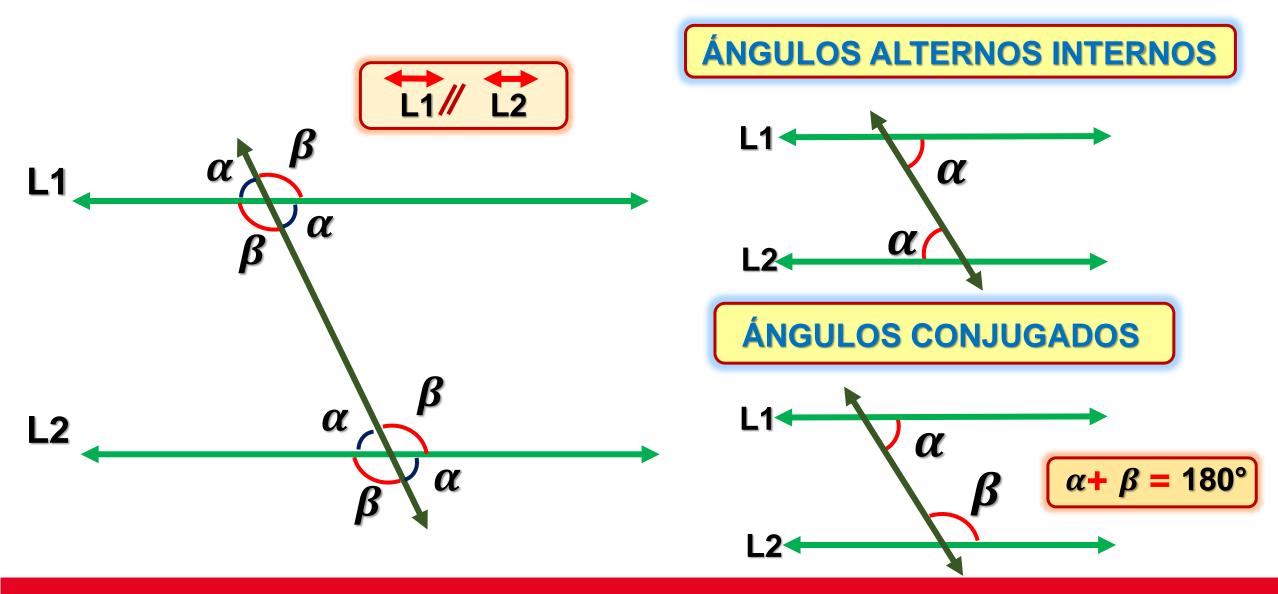
ningún punto en común.





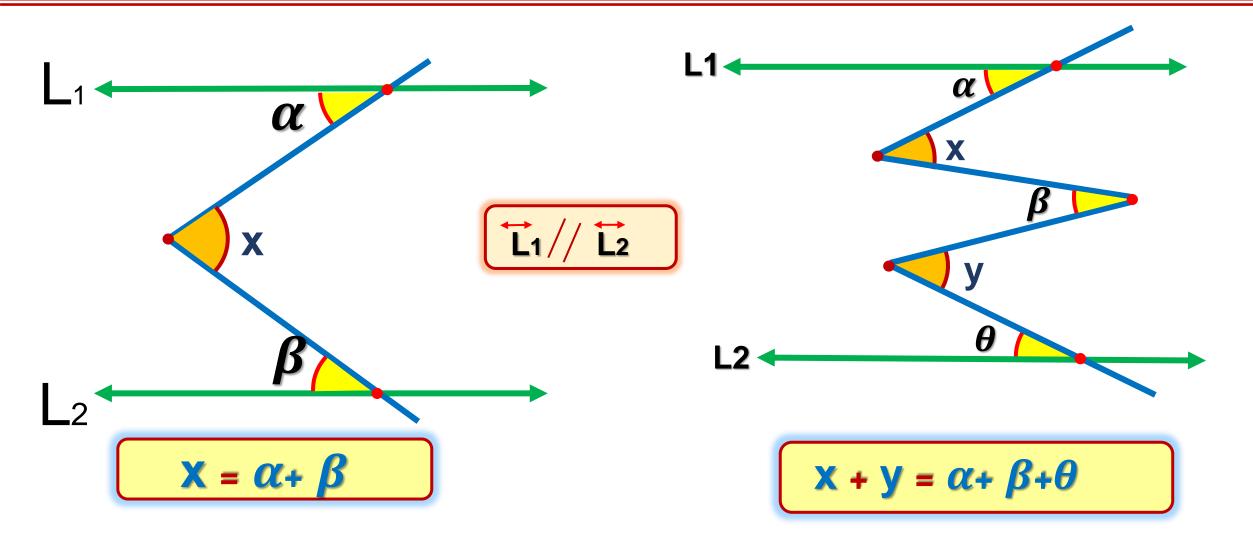


ÁNGULOS FORMADOS POR DOS RECTAS PARALELAS Y UNA SECANTE



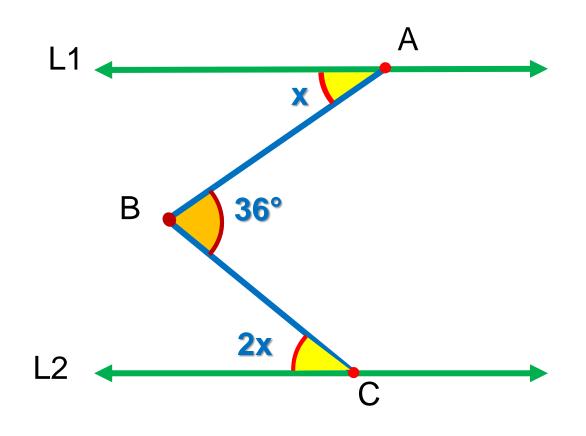


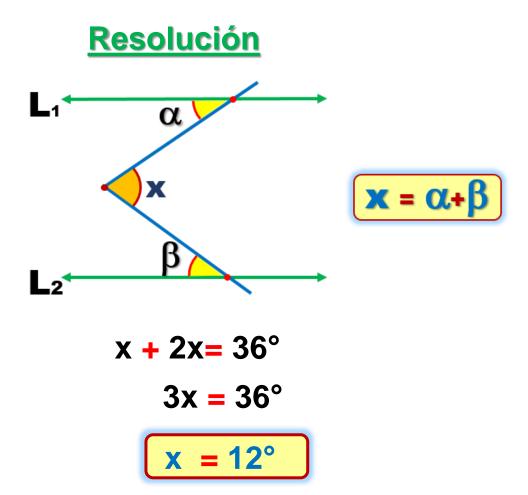
TEOREMAS





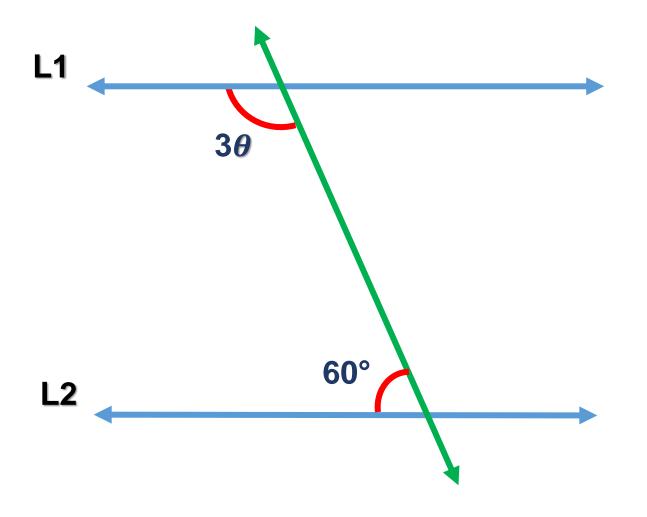
1. Si L1 // L2, halle el valor de x.





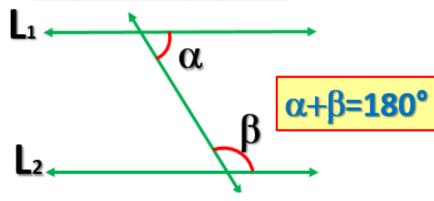


2. Si $\overrightarrow{L1}$ // $\overrightarrow{L2}$, halle el valor de θ .



Resolución





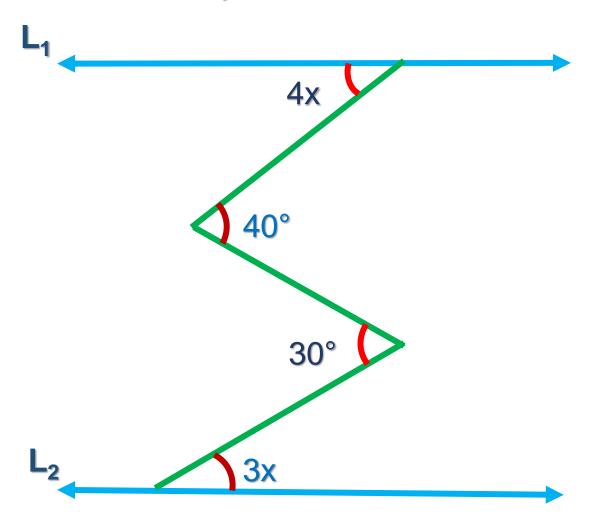
$$3\theta + 60^{\circ} = 180^{\circ}$$

$$3\theta = 120^{\circ}$$

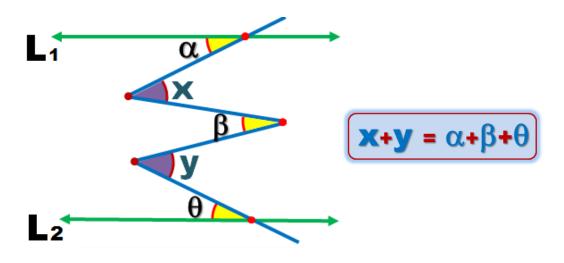
$$\theta = 40^{\circ}$$



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



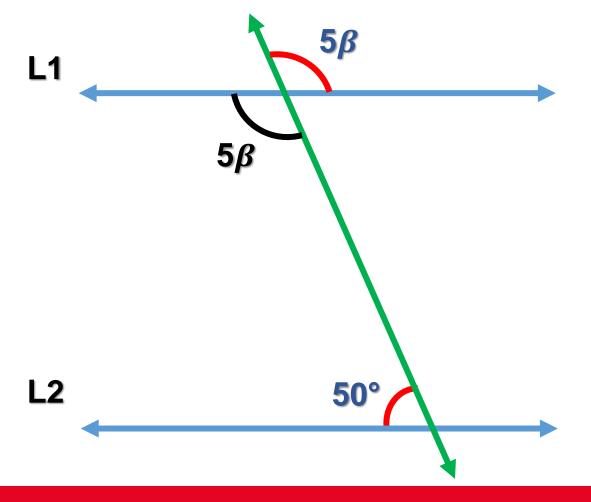
Resolución



$$4x - 3x = 40^{\circ} - 30^{\circ}$$

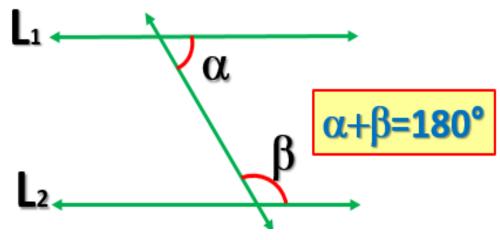


4. Si $\overrightarrow{L1}$ // $\overrightarrow{L2}$, halle el valor de β .



Resolución





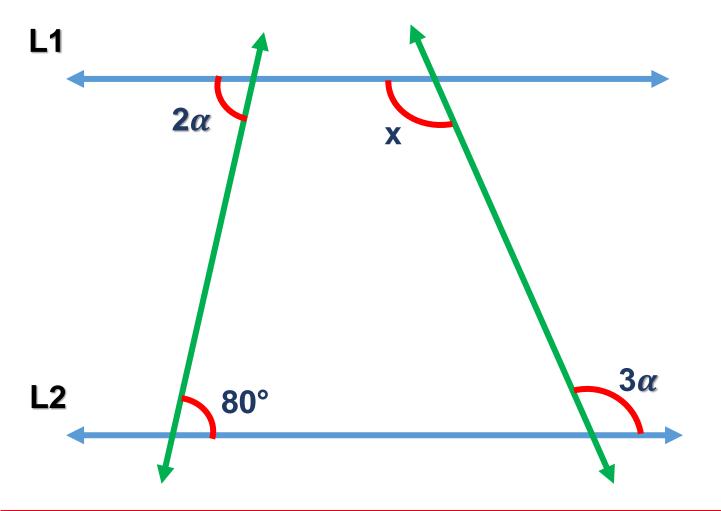
$$5\beta + 50^{\circ} = 180^{\circ}$$

$$5\beta = 130^{\circ}$$

$$\beta = 26^{\circ}$$

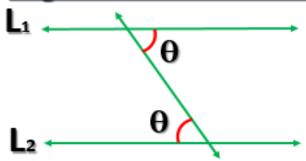


5. Si L1 // L2, halle el valor de x.



Resolución

Ángulos alternos internos



•
$$2\alpha = 80^{\circ}$$

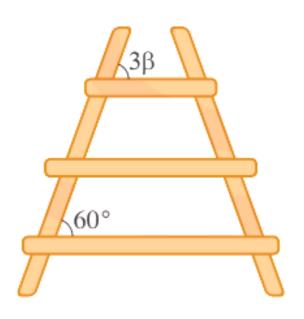
$$\alpha = 40^{\circ}$$

•
$$x = 3(\alpha)$$

$$x = 120^{\circ}$$

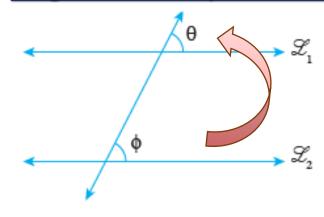


6. En el gráfico se muestra una escalera. Halle el valor de β .



Resolución

Ángulos correspondientes



$$3\beta = 60^{\circ}$$

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



7. Dos personas situadas en A y B cruzan la pista en direcciones paralelas y forman con las veredas ángulos que miden 3x y 60°, respectivamente. Halle el valor de x.

