



# GEOMETRÍA

## Capítulo 1

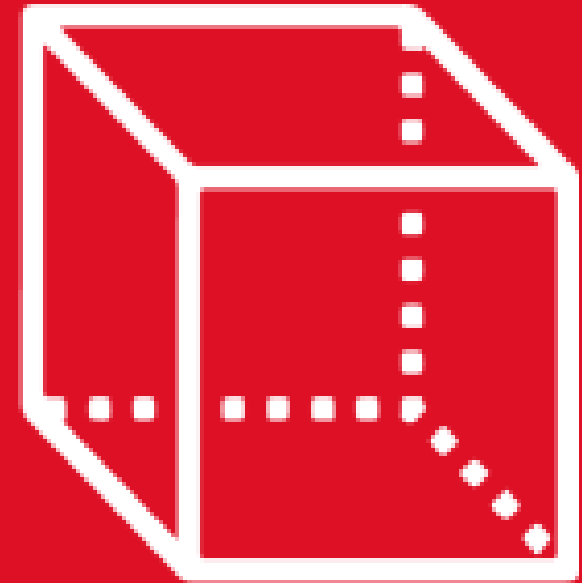
### Sesión 1

3th

SECONDARY

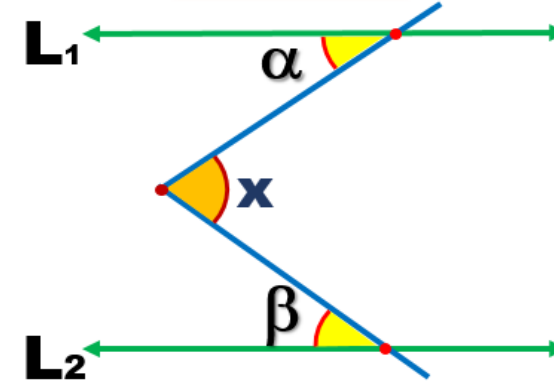
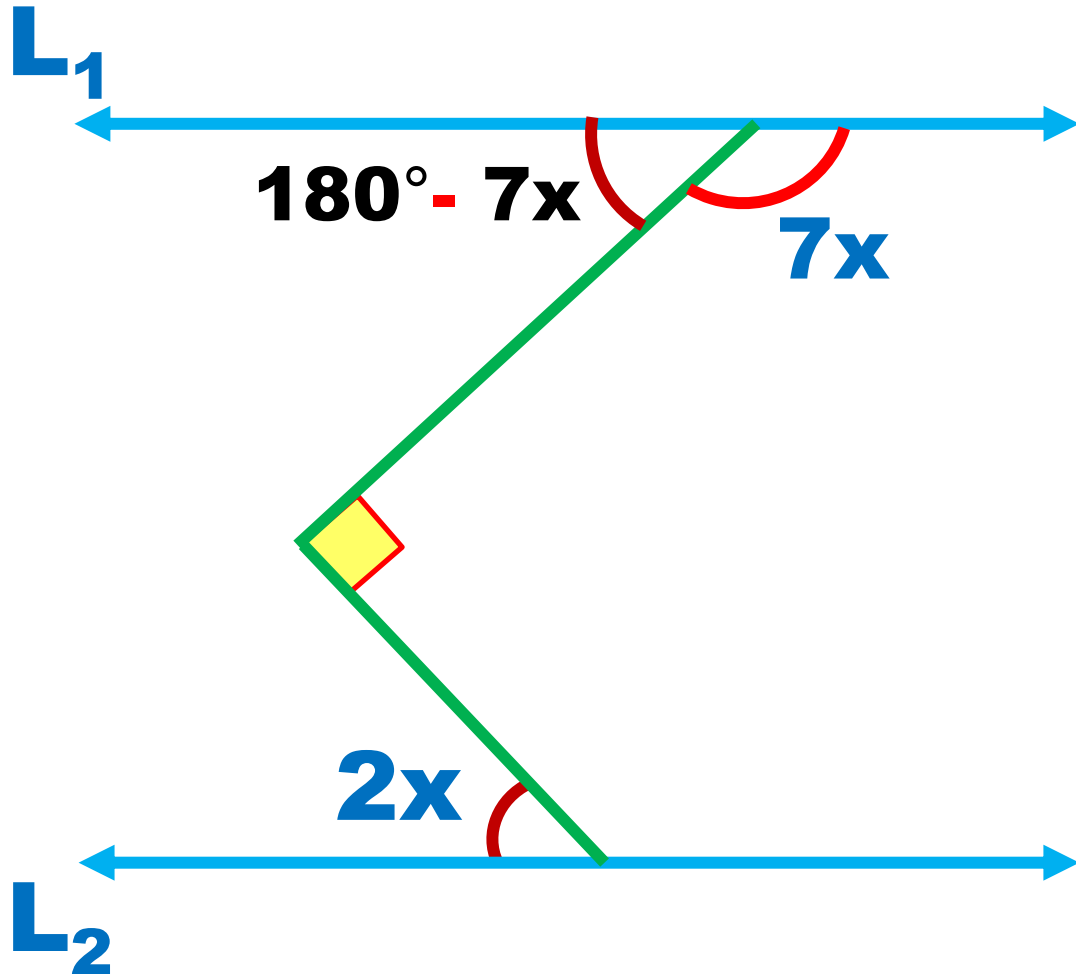
SEGMENTO DE RECTA

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1. Si  $\vec{L_1} // \vec{L_2}$ , halle el valor de  $x$ .



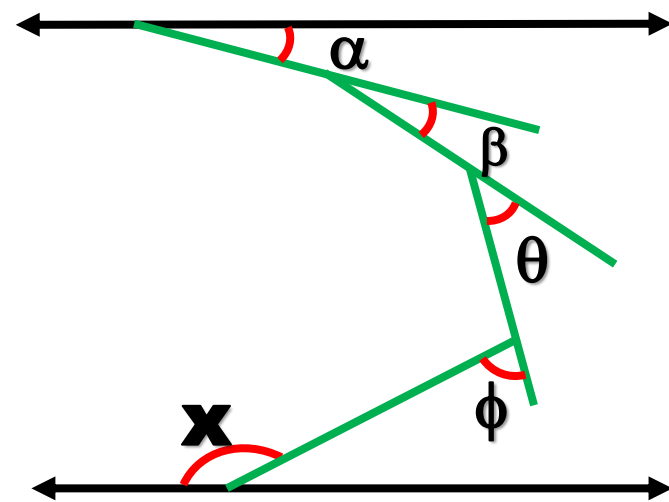
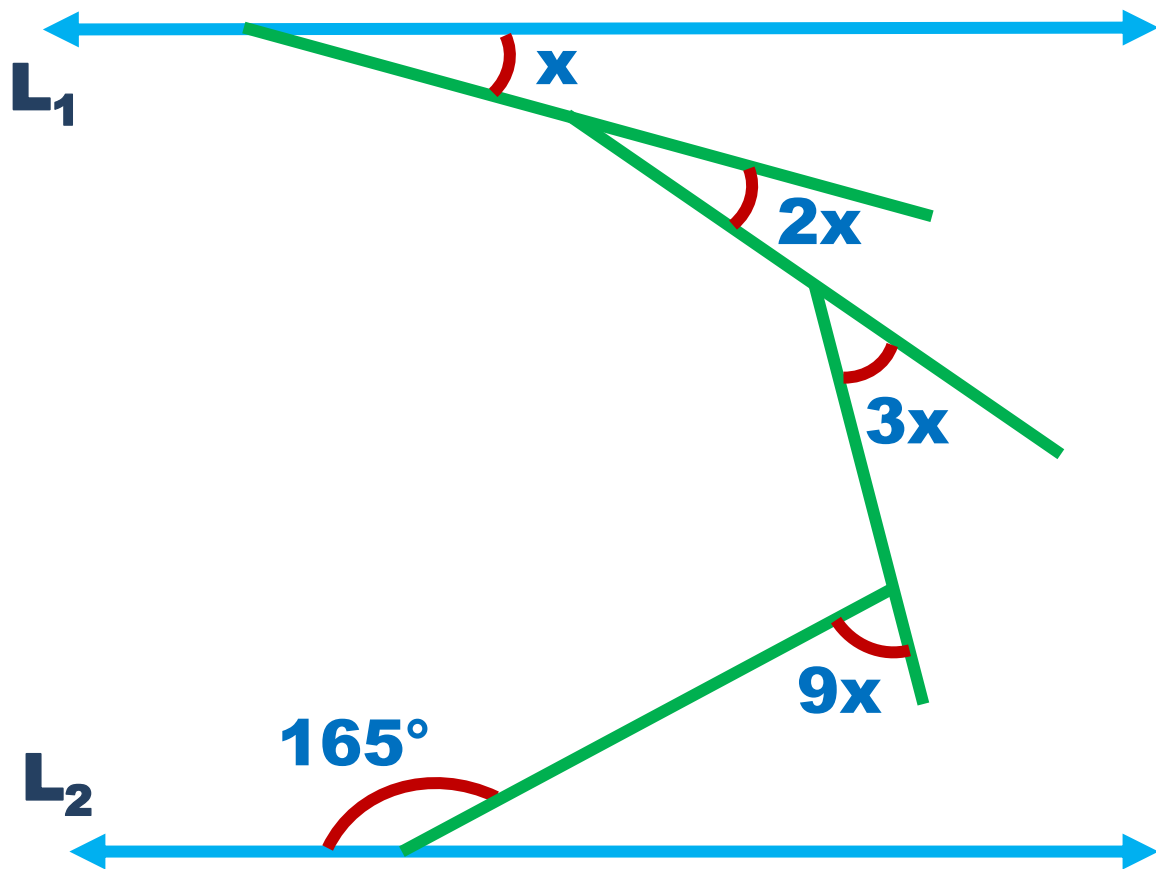
$$\alpha + \beta = x$$

➔  $180^\circ - 7x + 2x = 90^\circ$   
 $180^\circ - 5x = 90^\circ$   
 $90^\circ = 5x$

$$x = 18^\circ$$



2. Si  $\vec{L_1} // \vec{L_2}$ , halle el valor de  $x$ .



$$x = \alpha + \beta + \theta + \phi$$



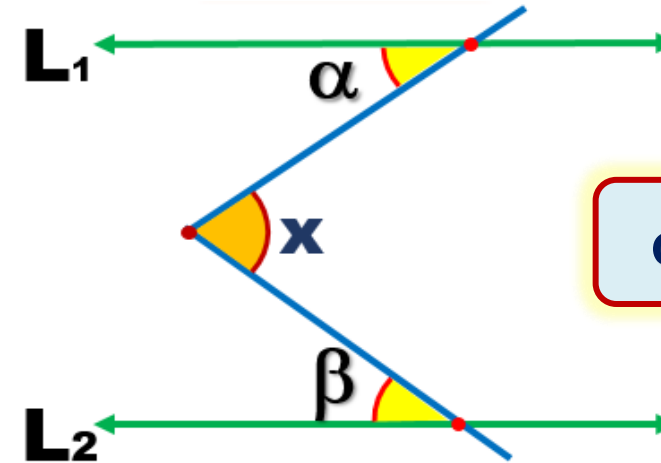
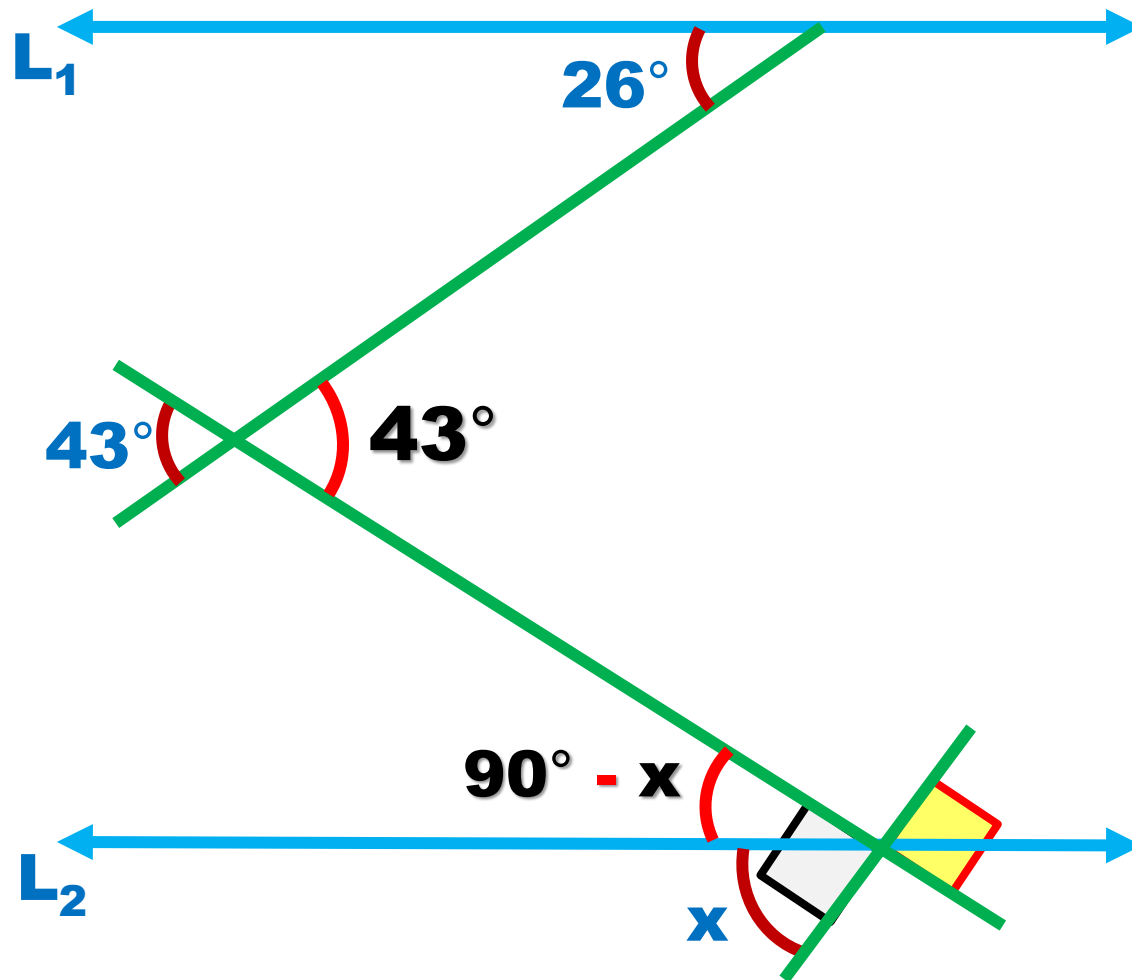
$$165^\circ = x + 2x + 3x + 9x$$

$$165^\circ = 15x$$

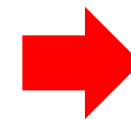
$$x = 11^\circ$$



3. Si  $\vec{L_1} \parallel \vec{L_2}$ , halle el valor de  $x$ .



$$\alpha + \beta = x$$



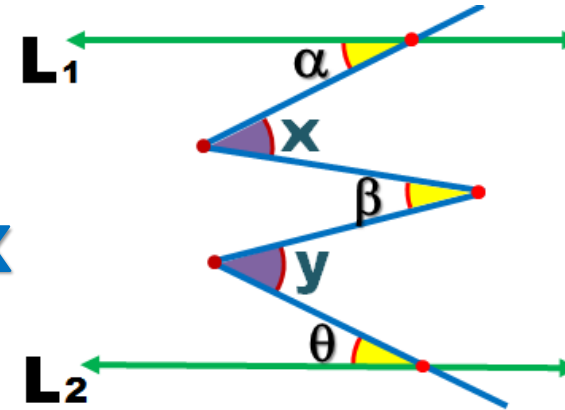
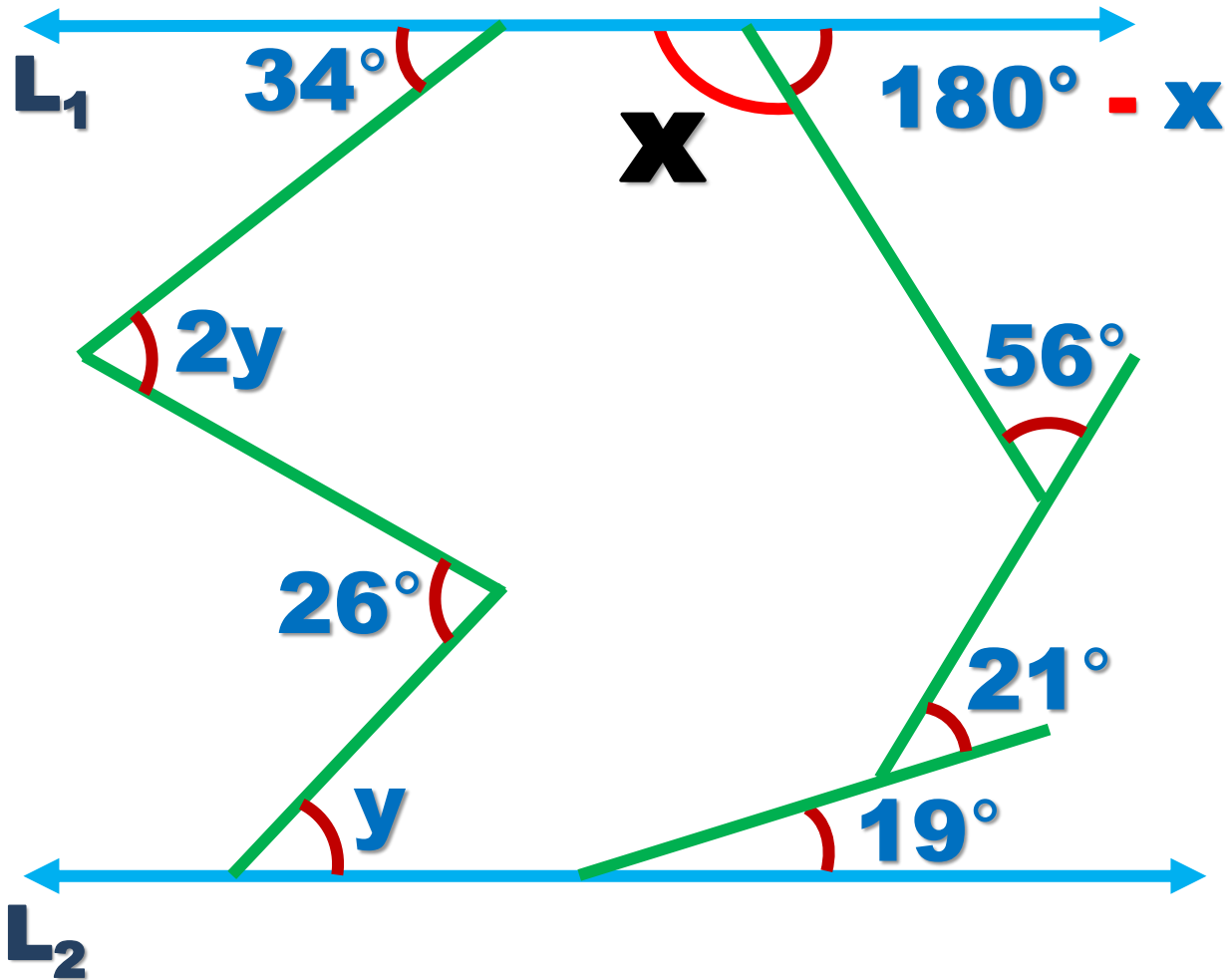
$$26^\circ + 90^\circ - x = 43^\circ$$

$$116^\circ - x = 43^\circ$$

$$x = 73^\circ$$



4. Si  $\vec{L_1} \parallel \vec{L_2}$ , halle el valor de  $x + y$ .

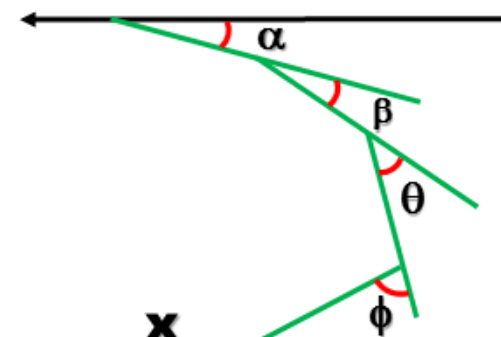


$$2y + y = 34^\circ + 26^\circ$$

$$3y = 60^\circ$$

$$y = 20^\circ$$

$$x + y = \alpha + \beta + \theta$$



$$x = 19^\circ + 21^\circ + 56^\circ$$

$$x = 96^\circ$$

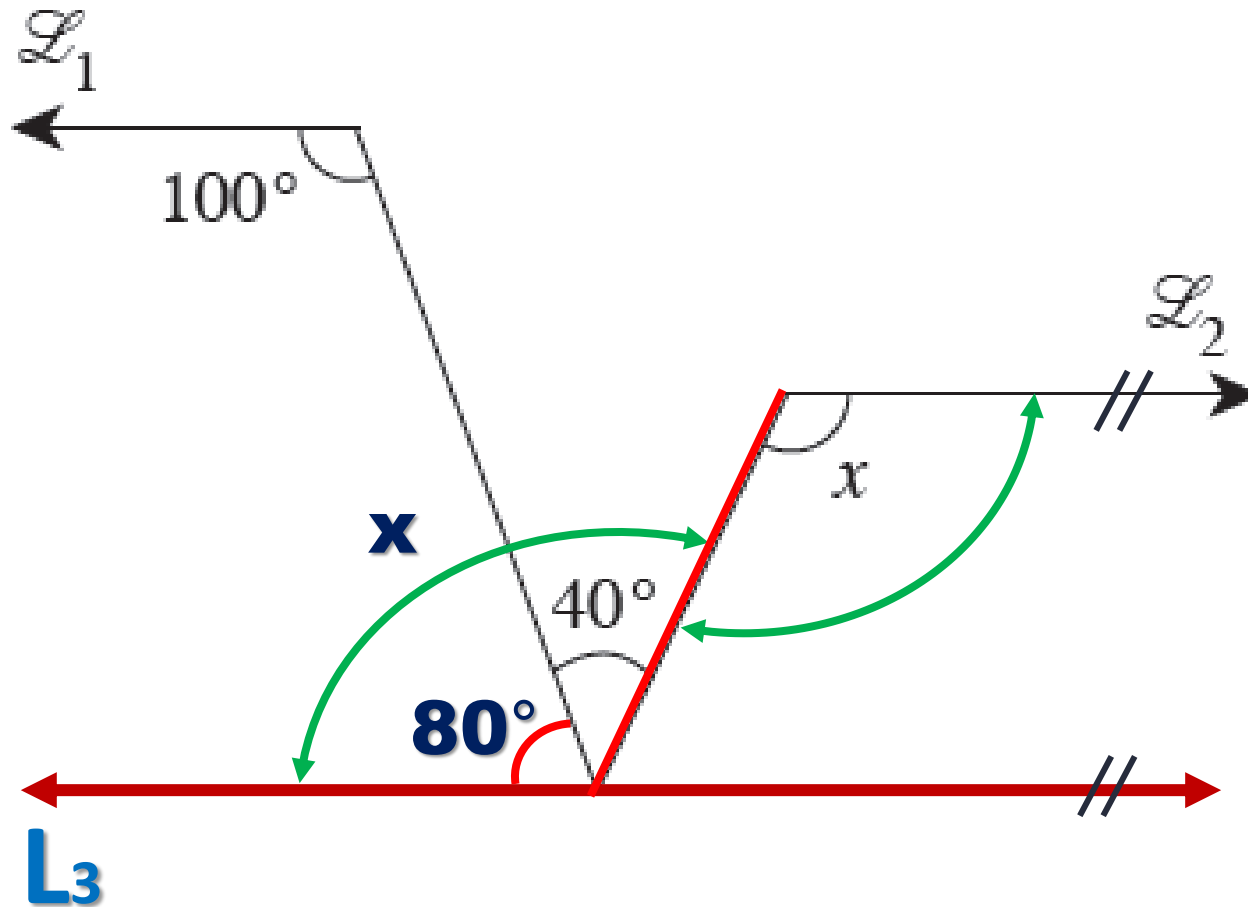
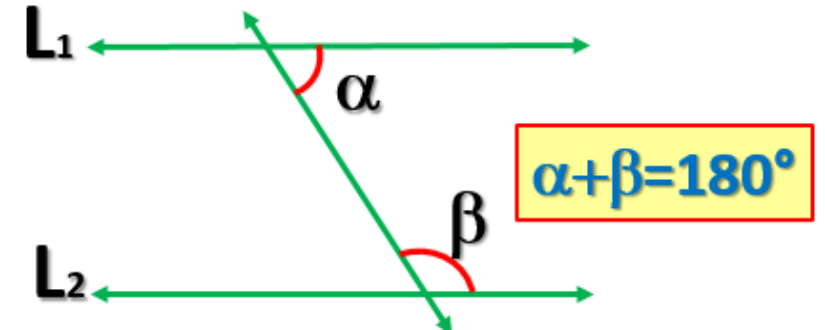
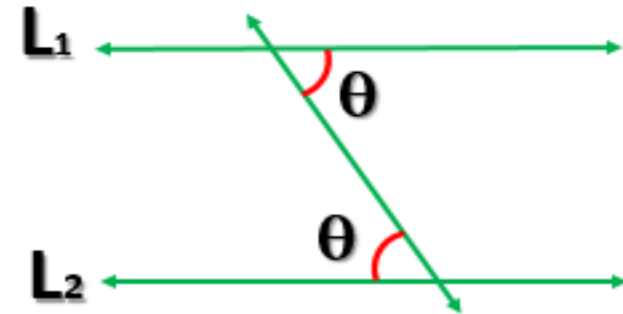
$$x = \alpha + \beta + \theta + \phi$$

$$x + y = 116^\circ$$



## PROBLEMA 5

Si  $L_1 \parallel L_2$ , halle el valor de  $x$ .

Ángulos conjugadosÁngulos alternos internos

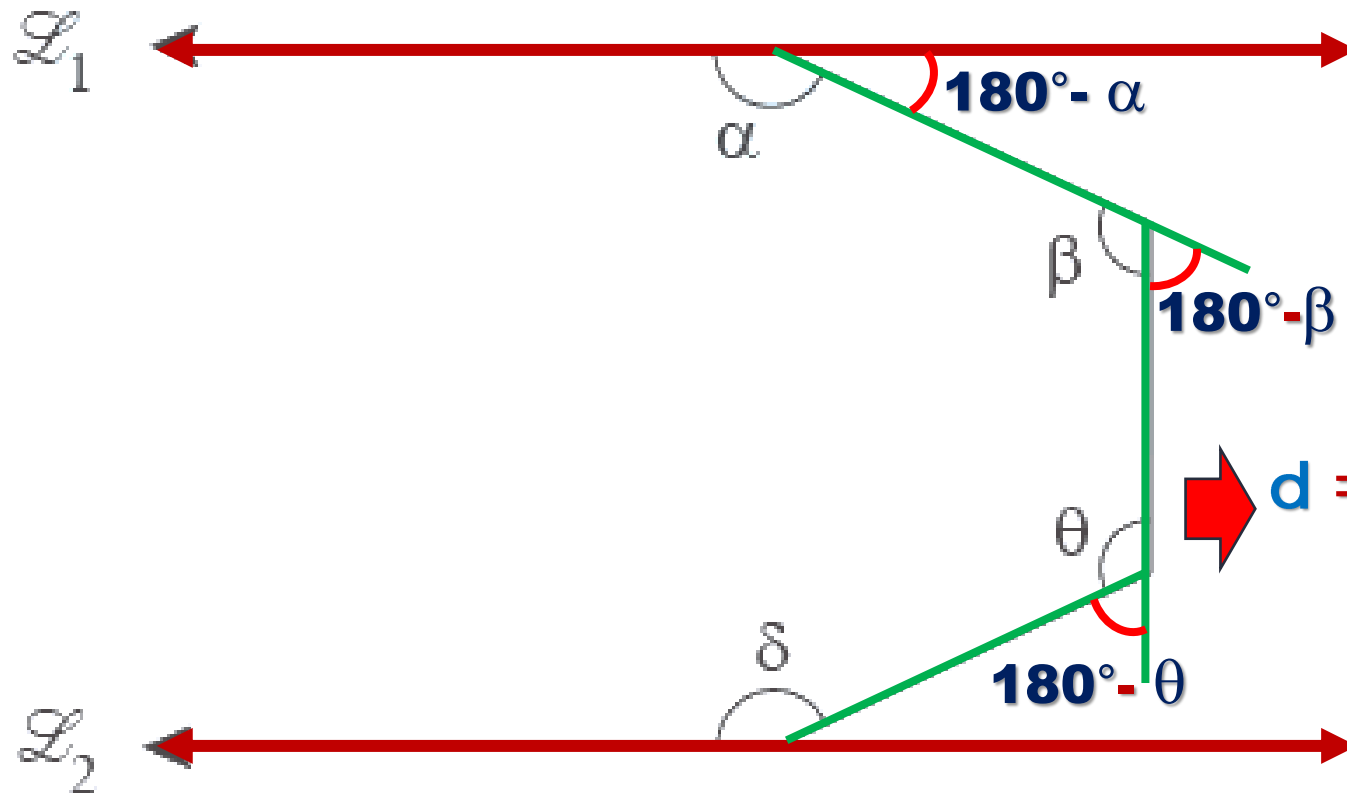
$$x = 80^\circ + 40^\circ$$

$$x = 120^\circ$$



## PROBLEMA 6

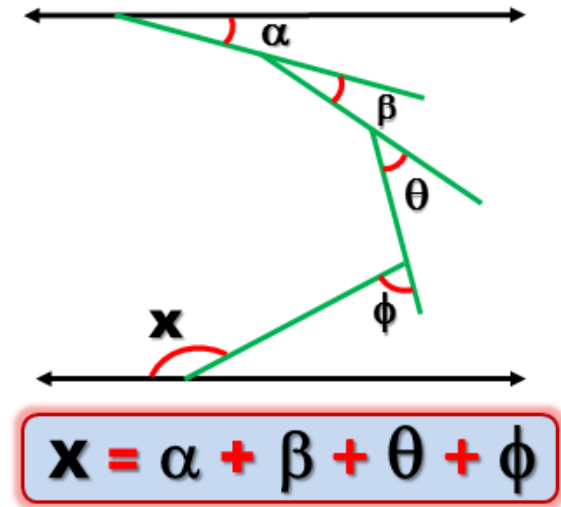
Si  $L_1 \parallel L_2$ , halle el valor de  $a + b + q + d$ .



$$d = 180^\circ - a + 180^\circ - b + 180^\circ - q$$

$$d + a + b + q = 180^\circ + 180^\circ + 180^\circ$$

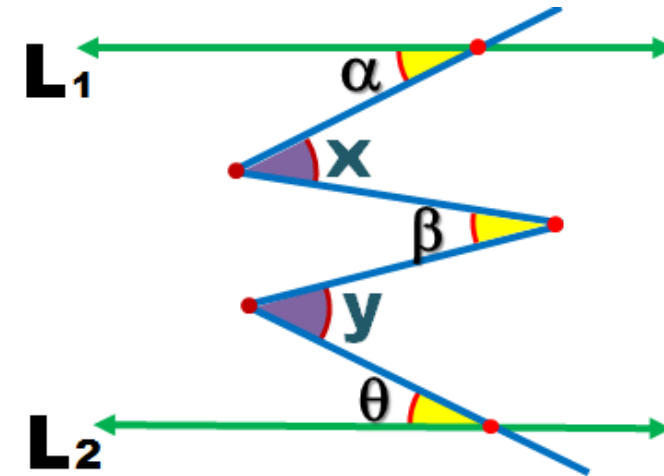
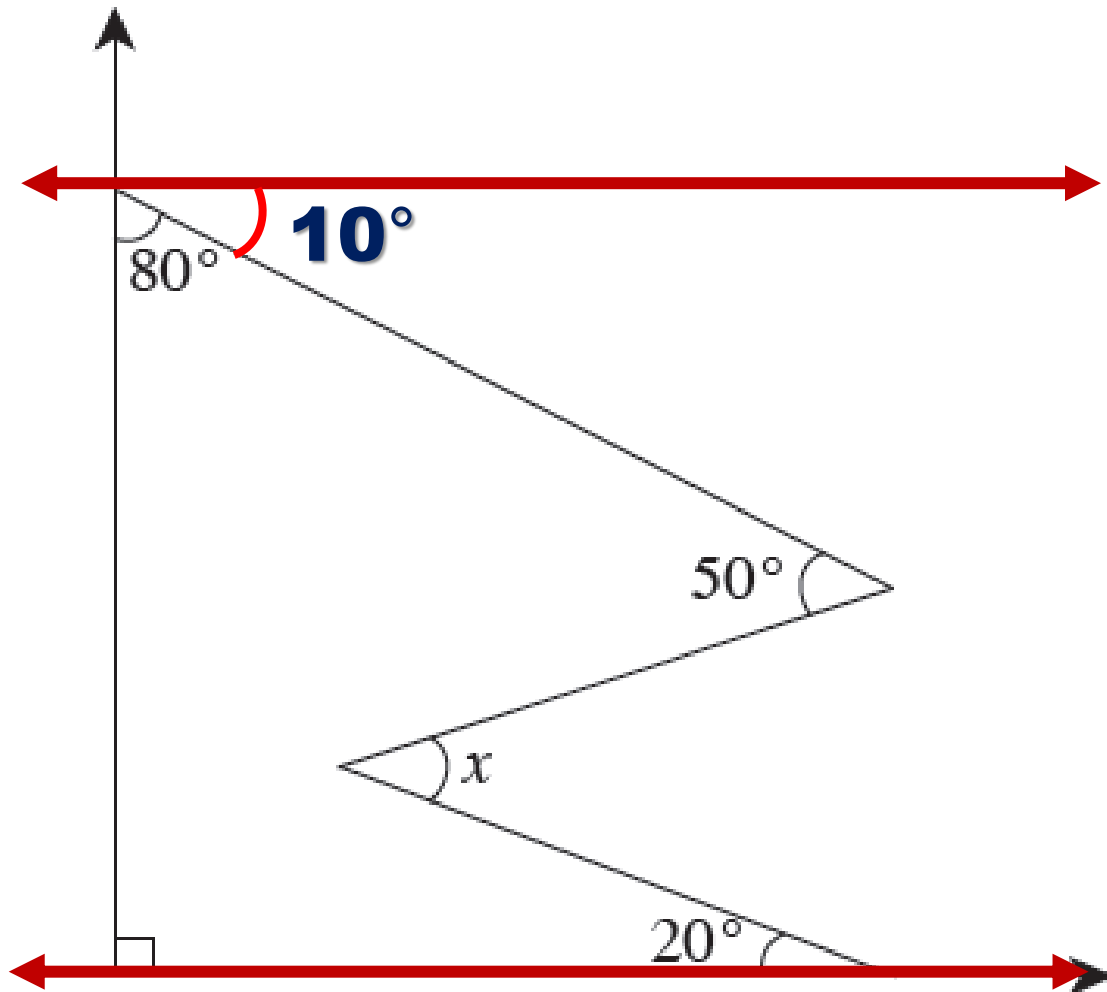
$$\delta + \alpha + \beta + \theta = 540^\circ$$





## PROBLEMA 7

Halle el valor de  $x$ .



$$x + y = \alpha + \beta + \theta$$

$$\begin{aligned} x + 10^\circ &= 50^\circ + 20^\circ \\ x + 10^\circ &= 70^\circ \end{aligned}$$

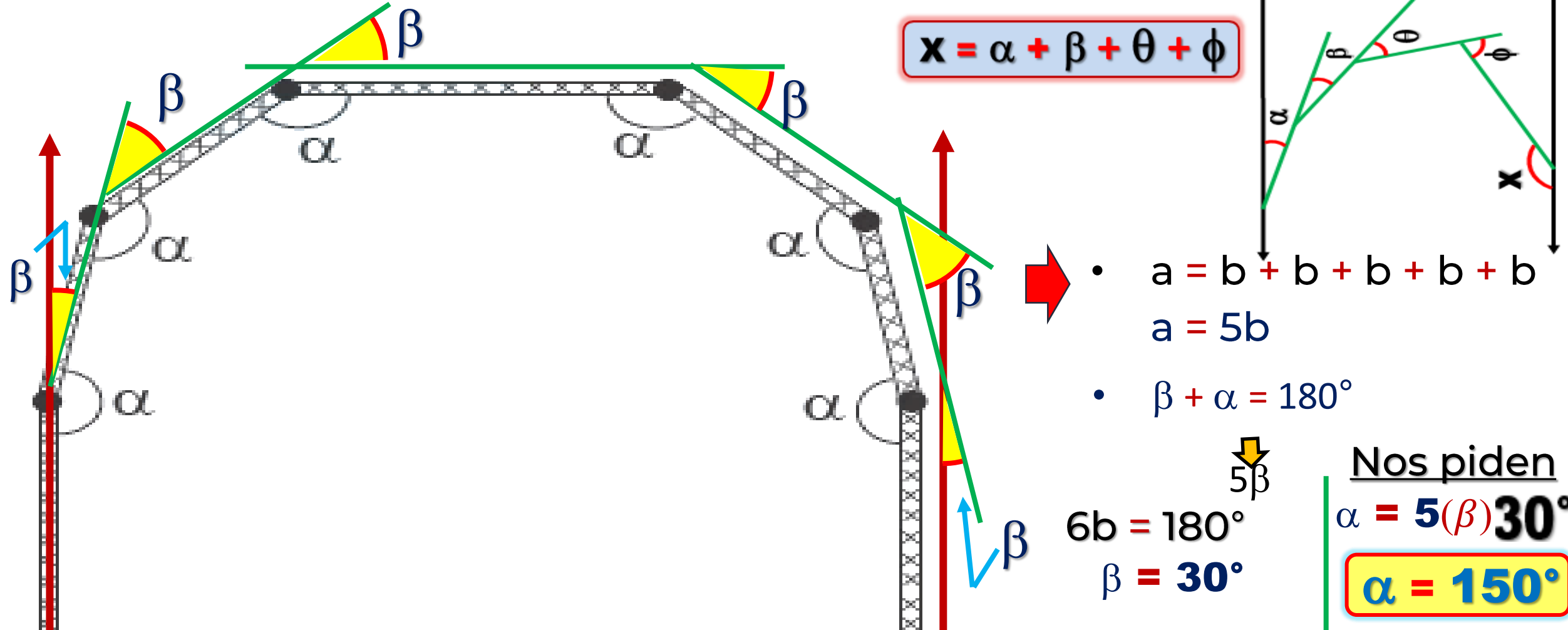
$$x = 60^\circ$$





## PROBLEMA 8

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.





 **SACO**  
**OLIVEROS**

The image features a logo for 'SACO OLIVEROS' centered on a background split diagonally from the top-left to the bottom-right. The upper-left portion is blue, and the lower-right portion is red. A large, faint, light-blue spiral graphic is centered behind the text, spanning across the diagonal. The text 'SACO' is in a bold, white, sans-serif font, and 'OLIVEROS' is in a larger, bold, white, sans-serif font. To the left of 'SACO' is a small white icon consisting of a spiral with an arrow pointing clockwise.