



GEOMETRÍA

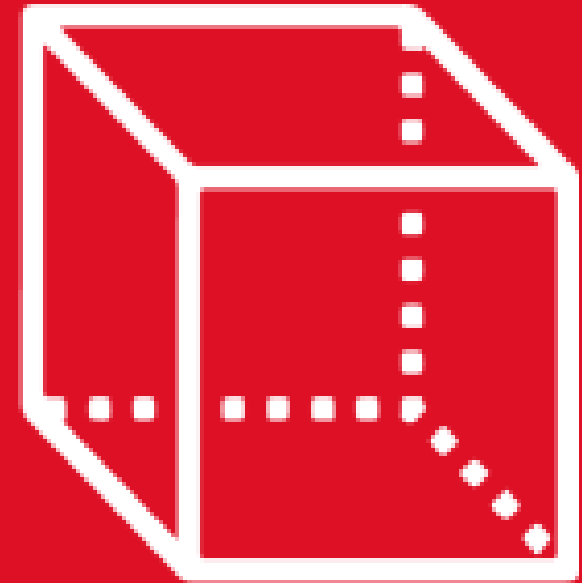
Capítulo 4

Sesión 2

3th

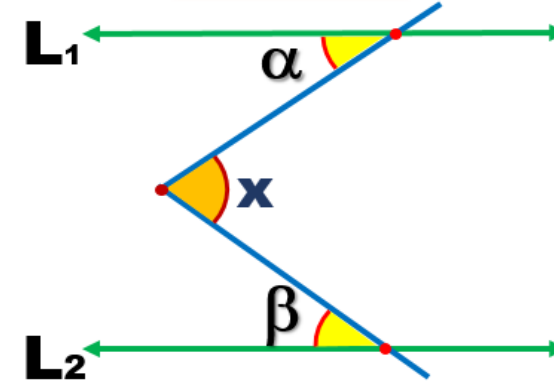
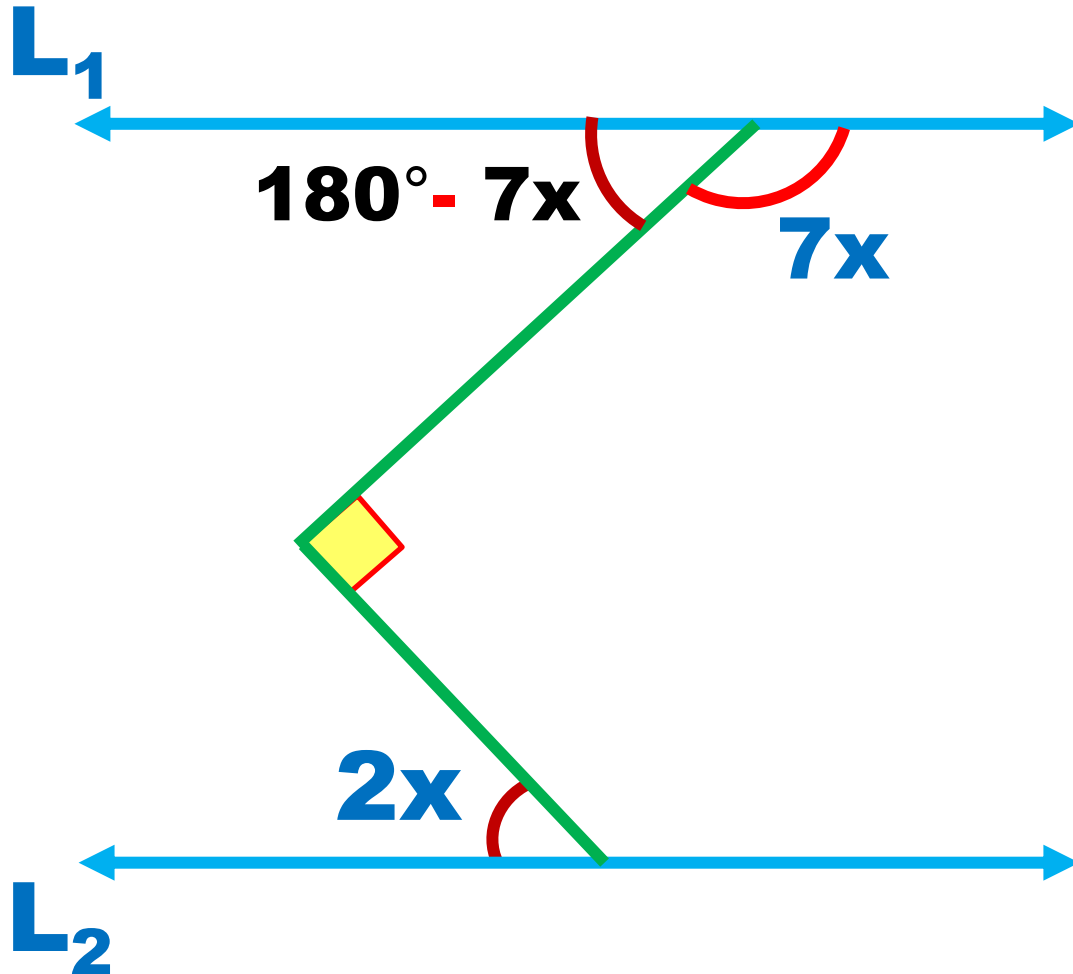
SECONDARY

SEGMENTO DE RECTA





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



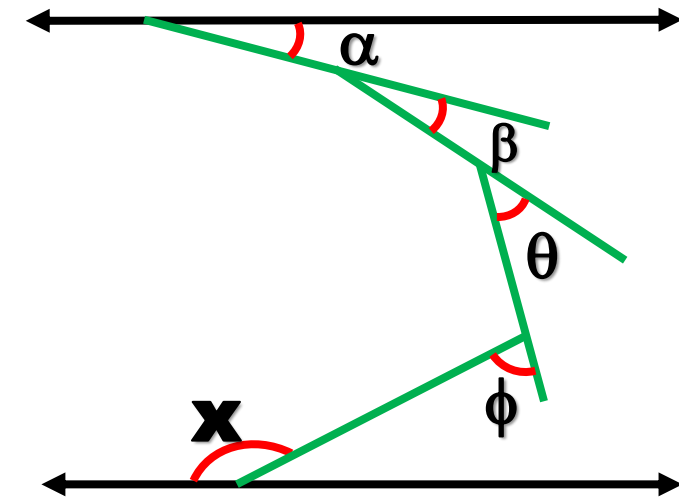
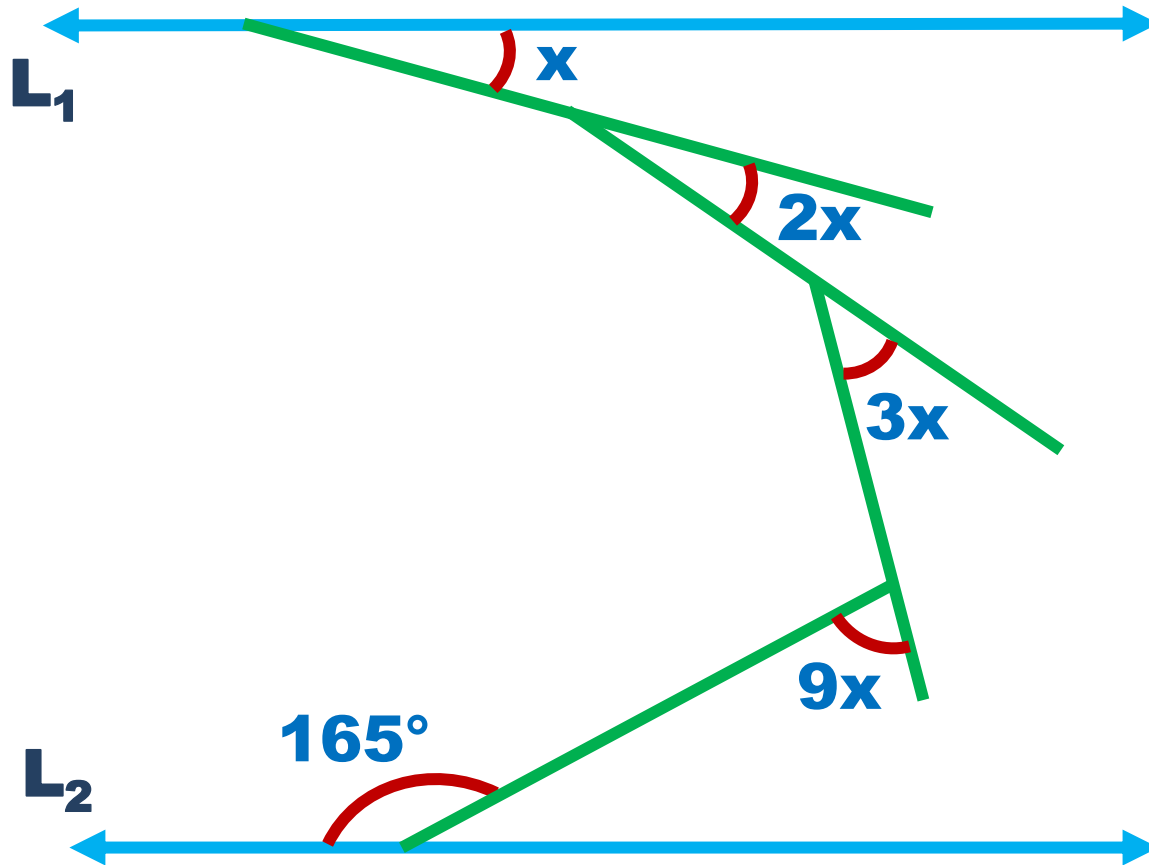
$$\alpha + \beta = x$$

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

$$x = 18^\circ$$



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



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

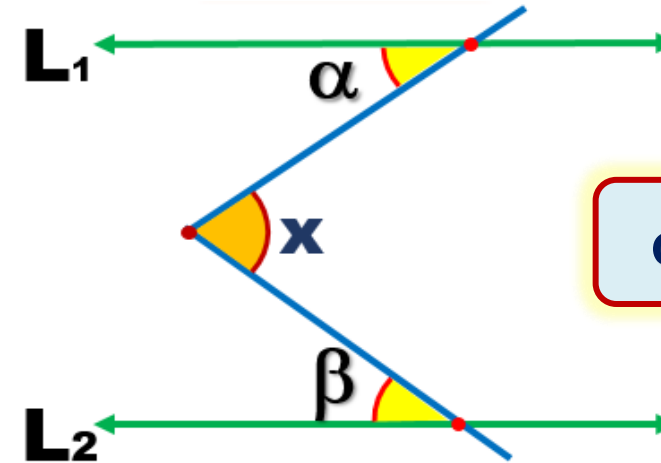
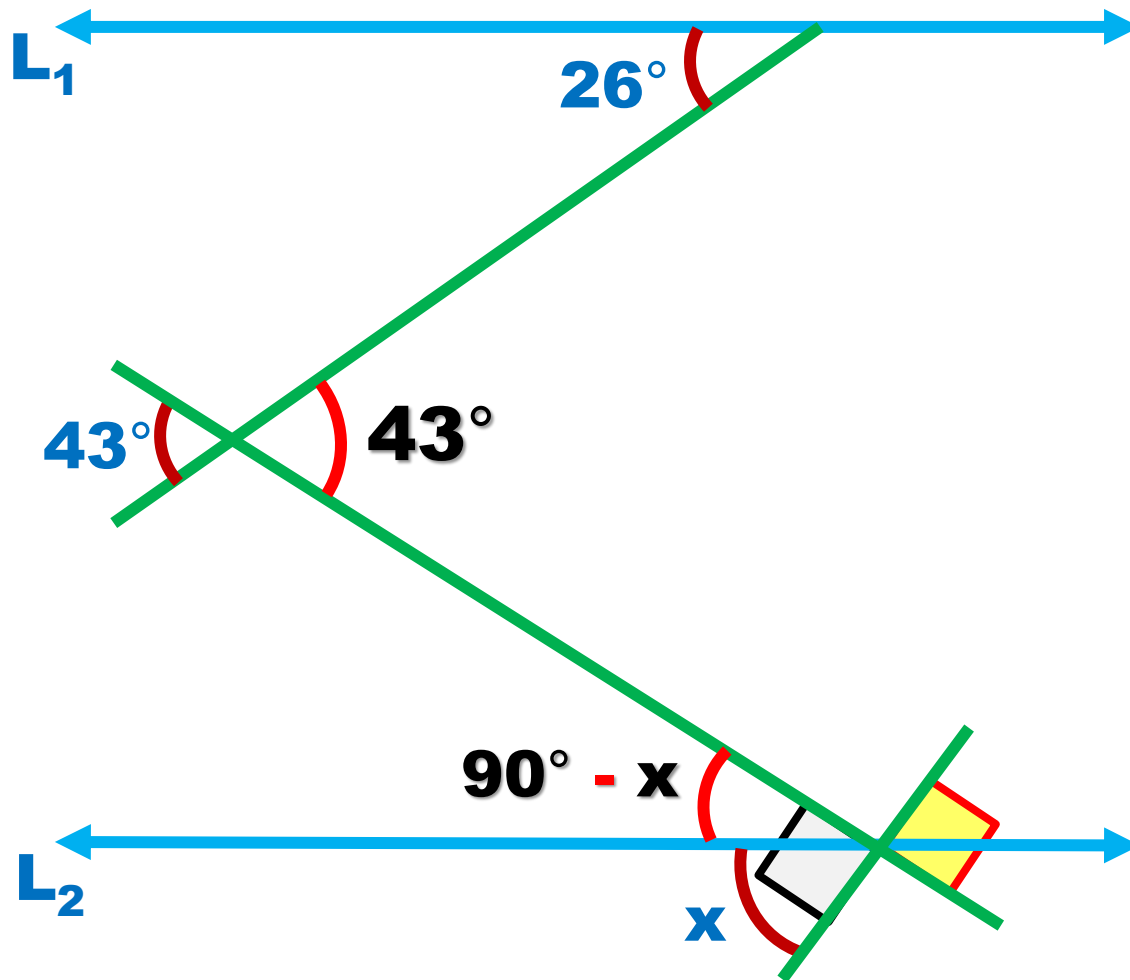
$$165^\circ = x + 2x + 3x + 9x$$

$$165^\circ = 15x$$

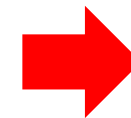
$$x = 11^\circ$$



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



$$\alpha + \beta = x$$



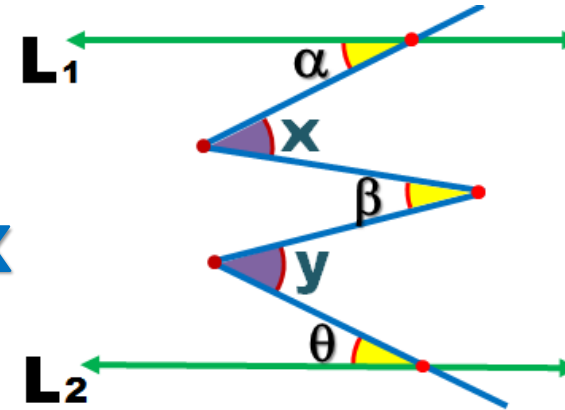
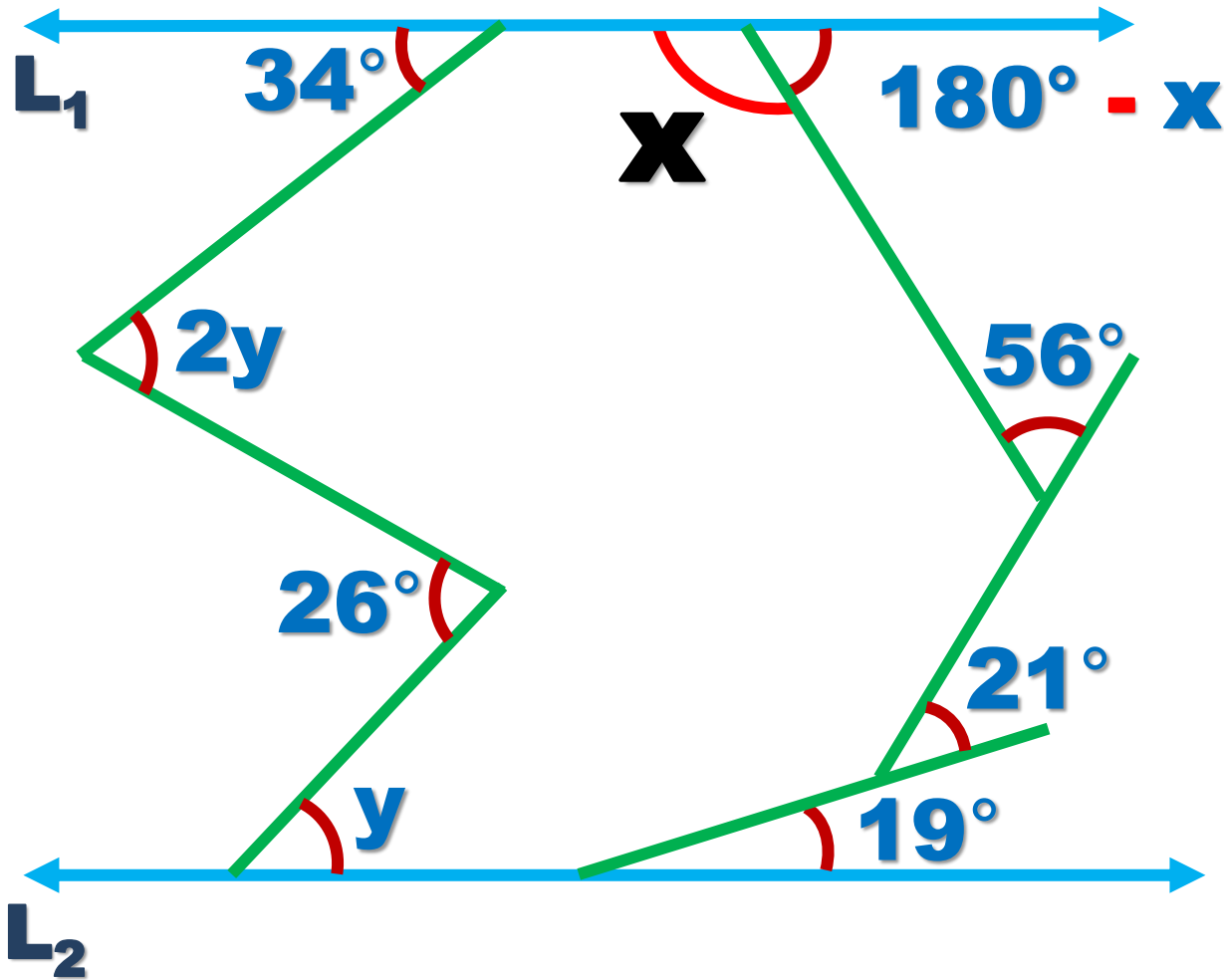
$$26^\circ + 90^\circ - x = 43^\circ$$

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

$$x = 73^\circ$$



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

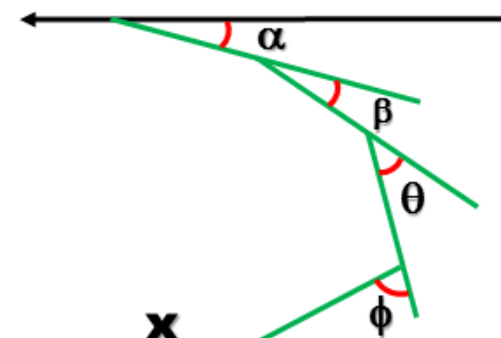


$$2y + y = 34^\circ + 26^\circ$$

$$3y = 60^\circ$$

$$y = 20^\circ$$

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



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

$$x = 96^\circ$$

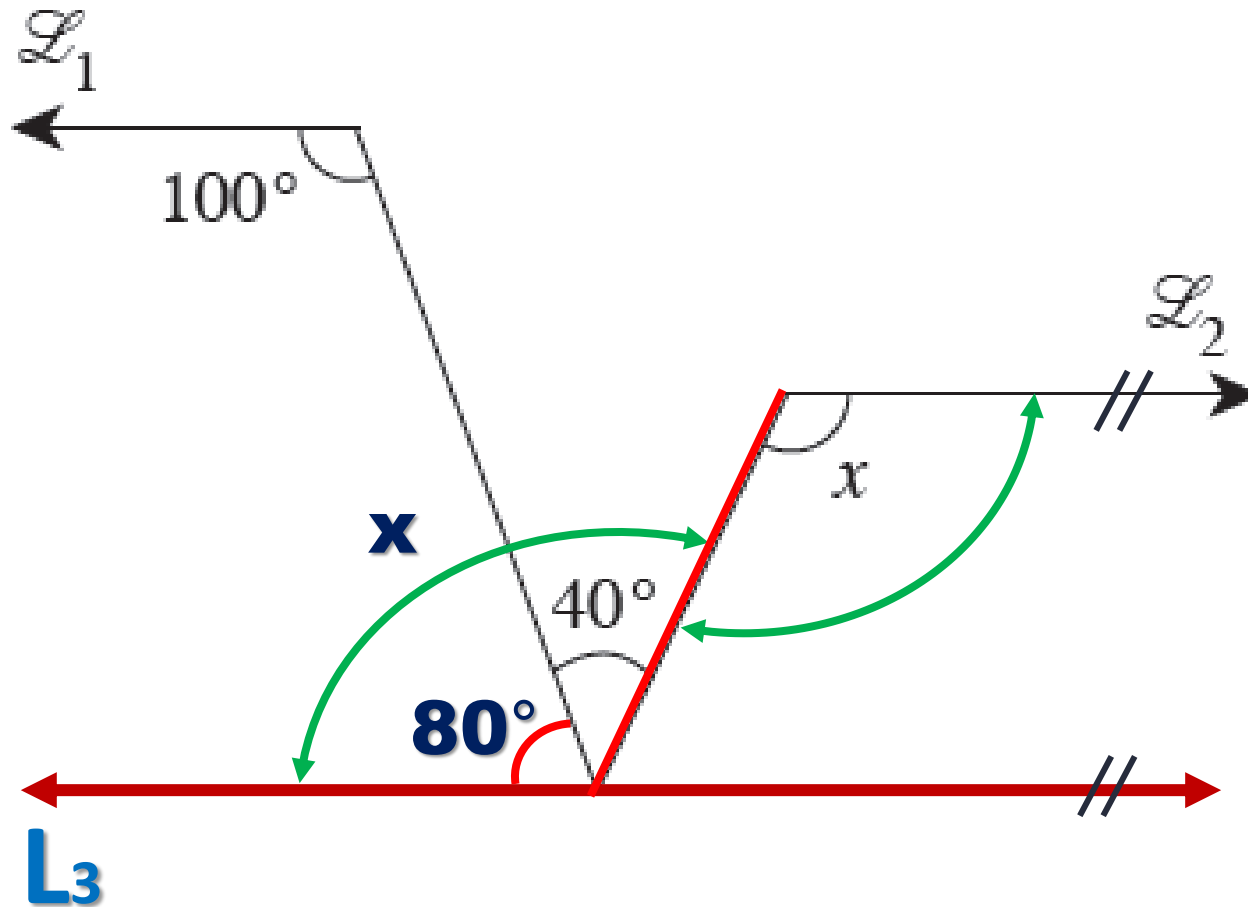
$$x = \alpha + \beta + \theta + \phi$$

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

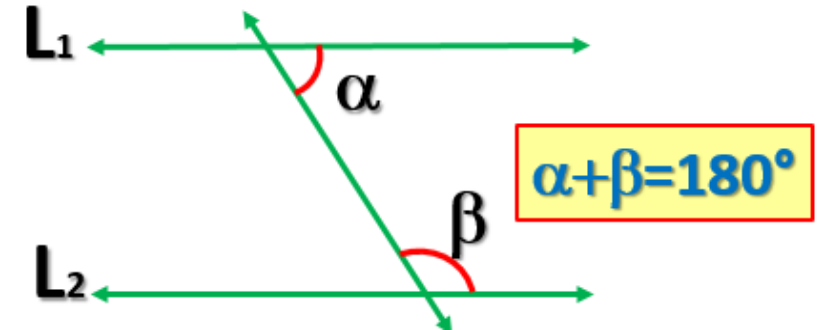


PROBLEMA 5

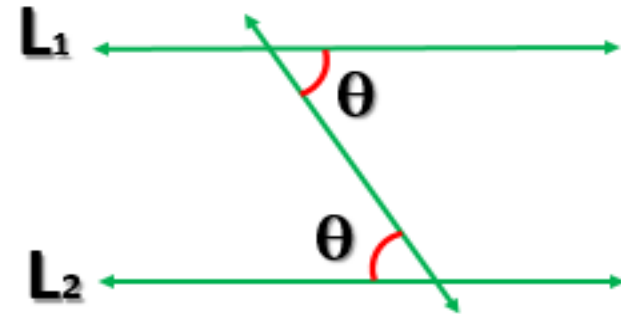
Si $L_1 \parallel L_2$, halle el valor de x .



Ángulos conjugados



Ángulos alternos internos



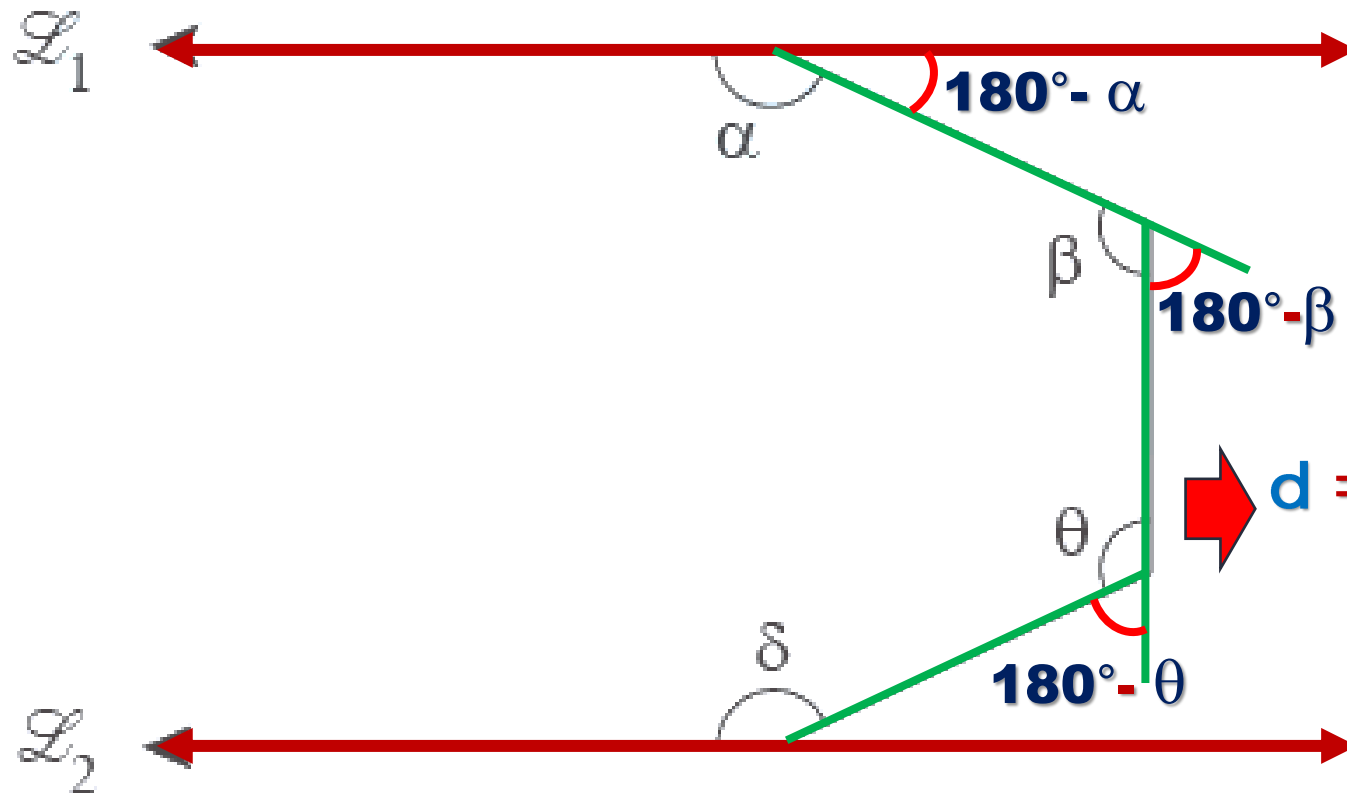
$$x = 80^\circ + 40^\circ$$

$$x = 120^\circ$$



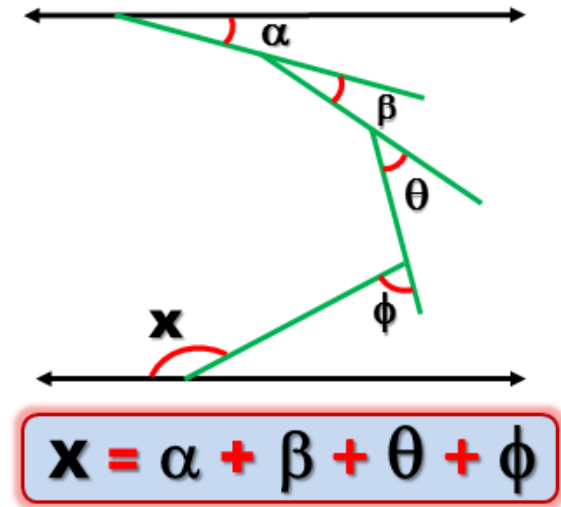
PROBLEMA 6

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



$$\begin{aligned} d &= 180^\circ - a + 180^\circ - b + 180^\circ - q \\ d + a + b + q &= 180^\circ + 180^\circ + 180^\circ \end{aligned}$$

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

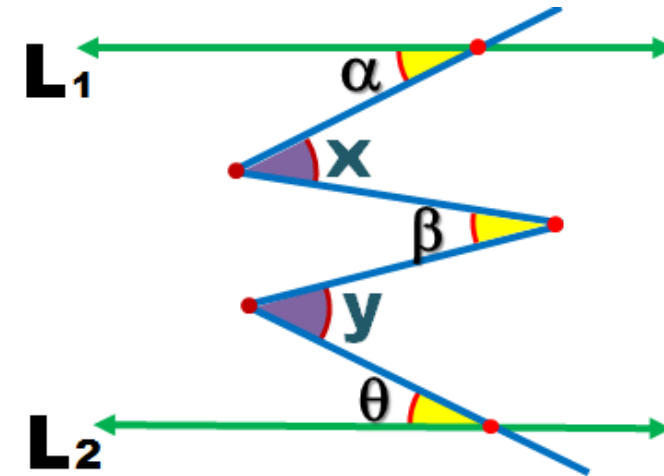
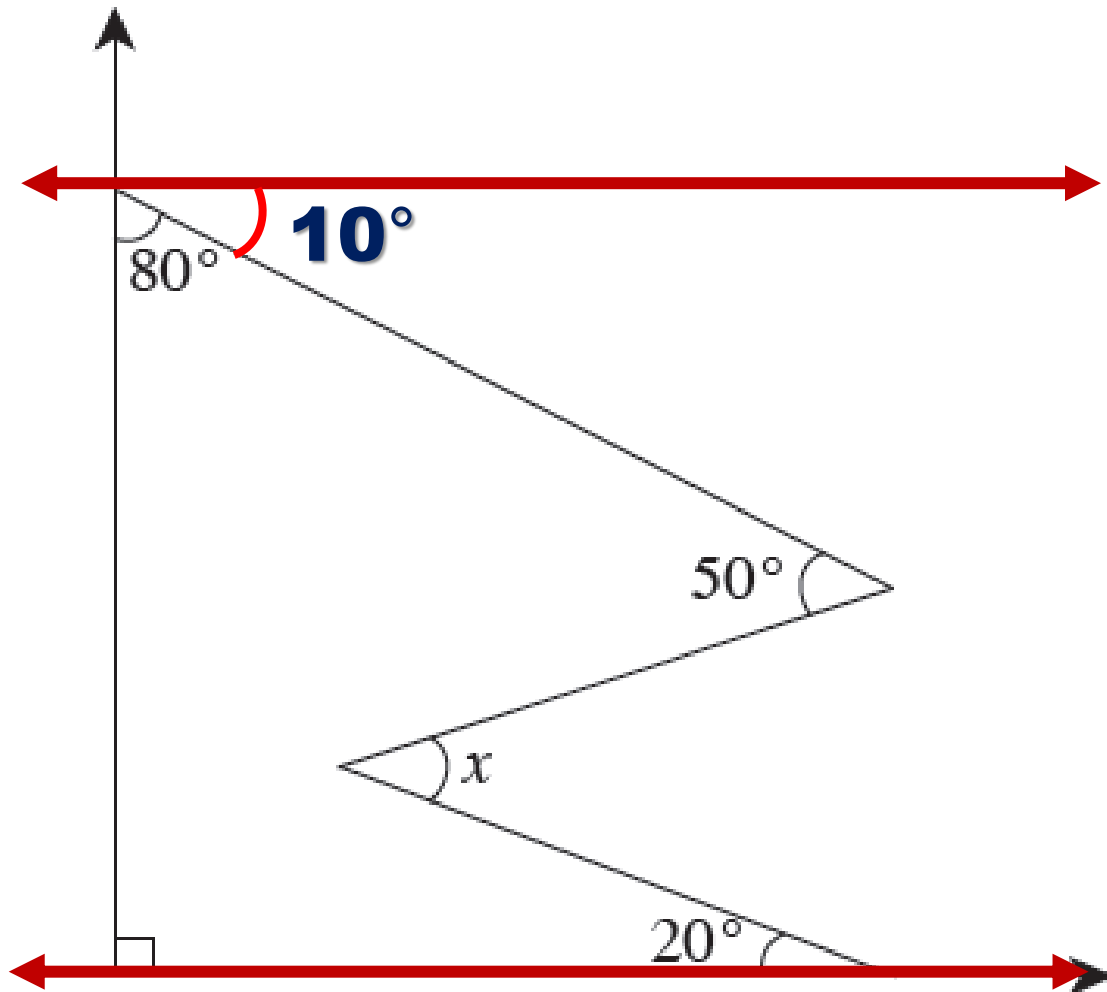


$$x = \alpha + \beta + \theta + \phi$$



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.

