



RECURSOS DIDÁCTICOS

SEGUNDO DE SECUNDARIA

GEOMETRÍA

ÁNGULOS ENTRE RECTAS PARALELAS

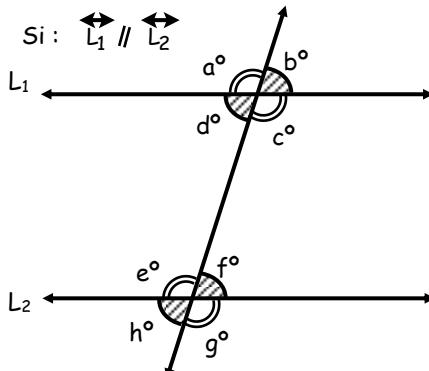
❖ CONCEPTO .-

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a) Ángulos Alternos :

$$\underbrace{(d^\circ; f^\circ); (c^\circ; e^\circ)}_{\text{Internos}}; \underbrace{(a^\circ; g^\circ); (b^\circ; h^\circ)}_{\text{Externos}}$$



b) Ángulos Conjugados :

$$\underbrace{(d^\circ; e^\circ); (c^\circ; f^\circ)}_{\text{Internos}}; \underbrace{(a^\circ; h^\circ); (b^\circ; g^\circ)}_{\text{Externos}}$$

c) Ángulos Correspondientes :

$$(a^\circ; e^\circ); (b^\circ; f^\circ); (d^\circ; h^\circ); (c^\circ; g^\circ)$$

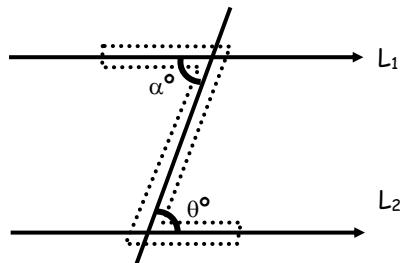


iAmiguito!

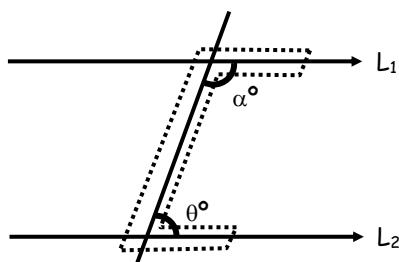
En Áng. Alternos recuerda la "z" del zorro.

$$\alpha^\circ = \theta^\circ$$

a) Ángulos Alternos



b) Ángulos Conjugados



iTigre! En Áng. Conjugados recuerda la "c" de conjugados

$$\alpha^\circ + \theta^\circ = 180^\circ$$



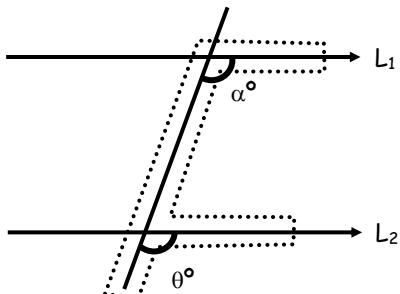
c) Ángulos Correspondientes



iCalichin!

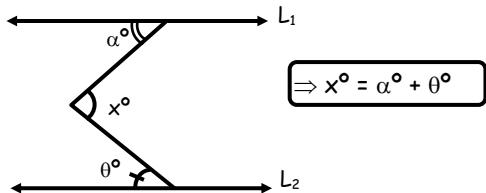
Y en estos ángulos recuerda la "f" de facil

$$\alpha^\circ = \theta^\circ$$

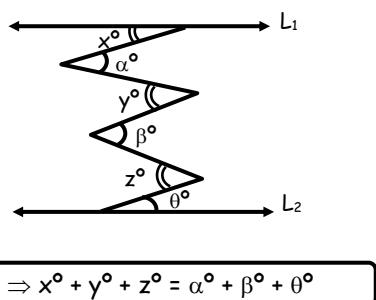


PROPIEDADES

a) Si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

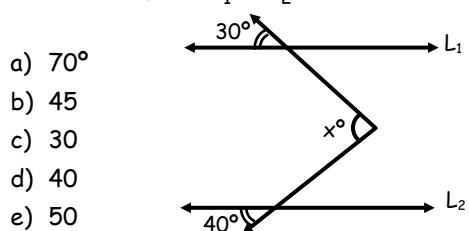


b) Si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

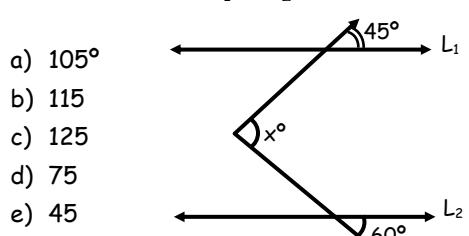


EJERCICIOS DE APLICACIÓN

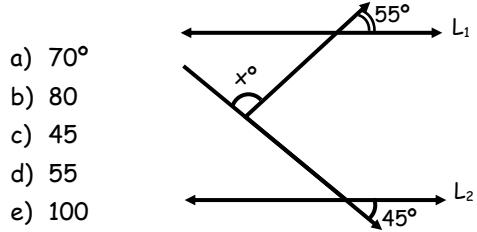
1. Calcular "x" ; si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$



2. Calcular "x" ; si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

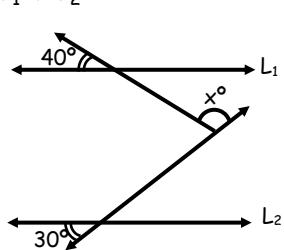


3. Calcular "x" , si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$



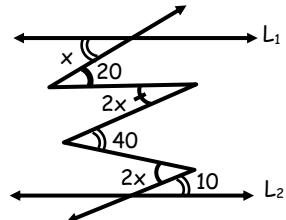
4. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 110°
- b) 100
- c) 70
- d) 120
- e) 80



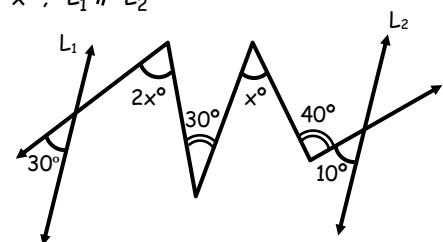
5. Calcular "x" , $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 12°
- b) 14
- c) 15
- d) 18
- e) 20



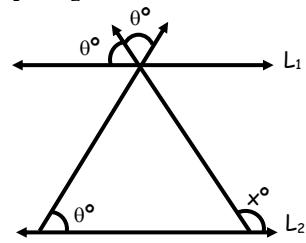
6. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 15°
- b) 30
- c) 45
- d) 36
- e) 60



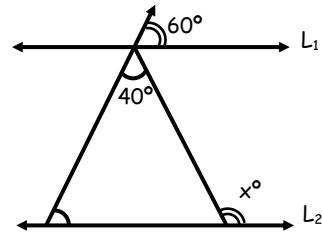
7. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 100°
- b) 120
- c) 130
- d) 150
- e) 115



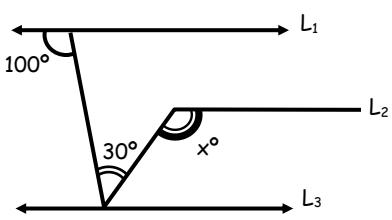
8. Calcular "x" ; si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 40°
- b) 60
- c) 110
- d) 100
- e) 120



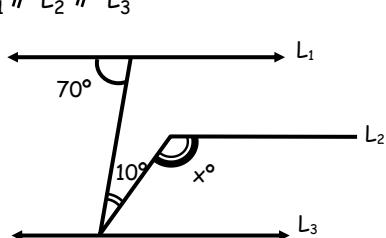
9. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2} \parallel \overrightarrow{L_3}$

- a) 110
- b) 100
- c) 80
- d) 130
- e) 120



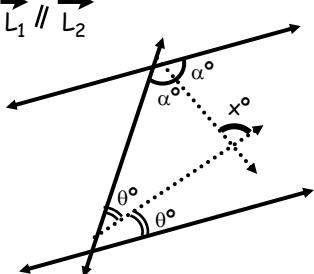
10. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2} \parallel \overrightarrow{L_3}$

- a) 120°
- b) 100
- c) 80
- d) 70
- e) 110



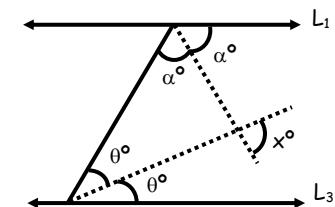
11. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 30°
- b) 60
- c) 90
- d) 120
- e) 100



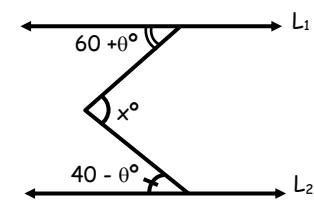
12. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 30°
- b) 60
- c) 90
- d) 100
- e) 120



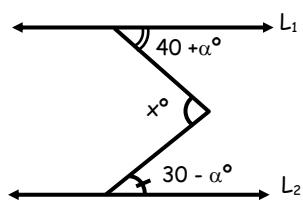
13. Calcular "x" ; si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 100°
- b) 120
- c) 70
- d) 80
- e) 110



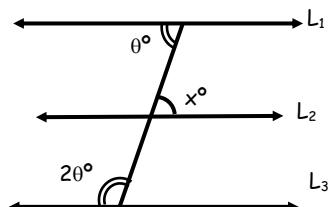
14. Calcular "x" ; si ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 70°
- b) 60
- c) 40
- d) 30
- e) 110



15. Calcular "x" ; si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2} \parallel \overrightarrow{L_3}$

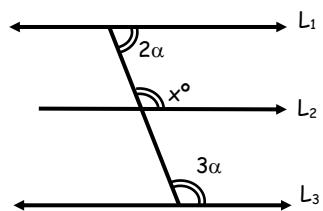
- a) 60°
- b) 30
- c) 90
- d) 45
- e) 120



TAREA DOMICILIARIA

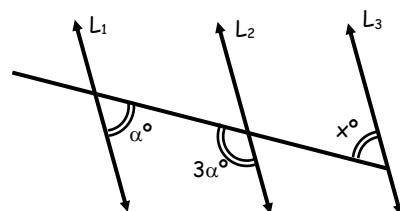
1. Calcular "x" , Si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2} \parallel \overrightarrow{L_3}$

- a) 108°
- b) 72
- c) 36
- d) 54
- e) 144



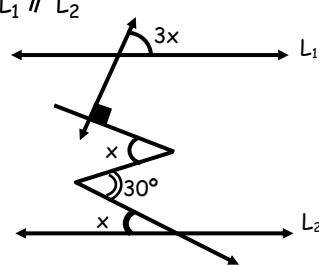
2. Calcular "x" ; si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2} \parallel \overrightarrow{L_3}$

- a) 45°
- b) 50
- c) 90
- d) 36
- e) 30



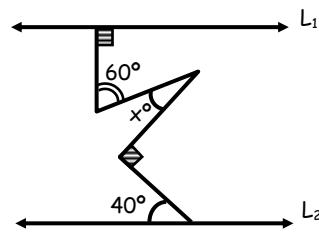
3. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 12°
- b) 24
- c) 36
- d) 48
- e) 54



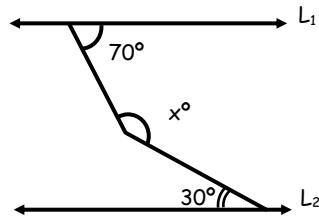
4. Calcular "x" ; $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 10°
- b) 20
- c) 30
- d) 40
- e) 50



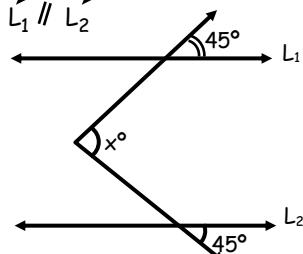
5. Calcular "x" ; si : $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 110°
- b) 70
- c) 140
- d) 150
- e) 170



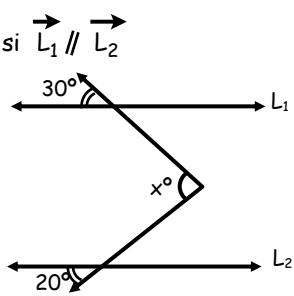
6. Calcular "x" ; si $\overrightarrow{L_1} \parallel \overrightarrow{L_2}$

- a) 90°
- b) 45
- c) 180
- d) 75
- e) 30



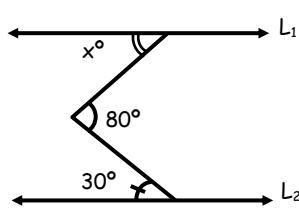
7. Calcular "x" ; si $\vec{L}_1 \parallel \vec{L}_2$

- a) 50°
- b) 40°
- c) 45°
- d) 60°
- e) 70°



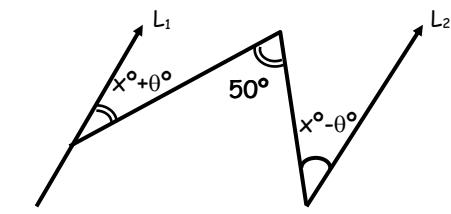
8. Calcular "x" ; $\vec{L}_1 \parallel \vec{L}_2$

- a) 50°
- b) 20°
- c) 80°
- d) 30°
- e) 40°



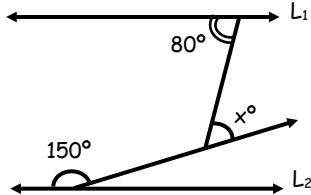
9. Calcular "x" $\vec{L}_1 \parallel \vec{L}_2$

- a) 25°
- b) 35°
- c) 55°
- d) 45°
- e) 20°



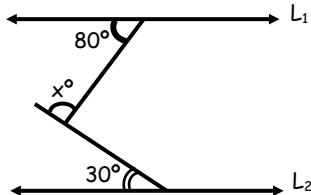
10. Calcular "x" ; $\vec{L}_1 \parallel \vec{L}_2$

- a) 50°
- b) 45°
- c) 60°
- d) 120°
- e) 100°



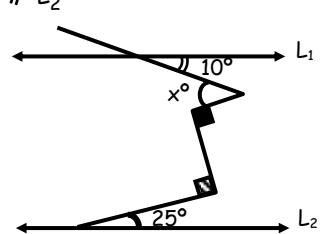
11. Calcular "x" ; $\vec{L}_1 \parallel \vec{L}_2$

- a) 70°
- b) 110°
- c) 80°
- d) 100°
- e) 30°



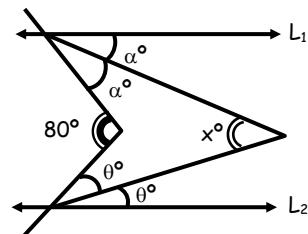
12. Calcular "x" ; $\vec{L}_1 \parallel \vec{L}_2$

- a) 35°
- b) 25°
- c) 55°
- d) 85°
- e) 45°



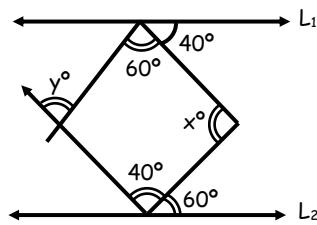
13. Calcular "x" ; Si : $\vec{L}_1 \parallel \vec{L}_2$

- a) 20°
- b) 40°
- c) 60°
- d) 80°
- e) 160°



14. Del gráfico, calcular "x° + y°"

- a) 150°
- b) 130°
- c) 260°
- d) 160°
- e) 100°



15. Si : $\vec{L}_1 \parallel \vec{L}_2$: Calcular "x"

- a) $16^\circ 40'$
- b) $8^\circ 40'$
- c) 32°
- d) $50^\circ 40'$
- e) $\frac{50^\circ}{6}$

