



RECURSOS DIDÁCTICOS

TERCERO DE SECUNDARIA

GEOMETRÍA

CUADRILÁTEROS I

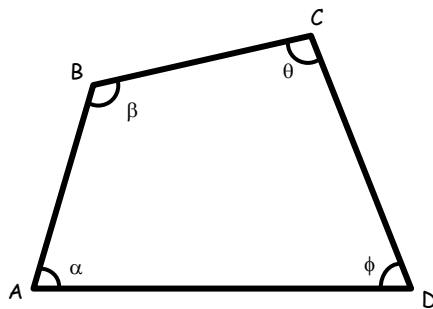
DEFINICIÓN

Es aquella figura geométrica cerrada que tiene 4 lados.

FORMA

□ Convexo :

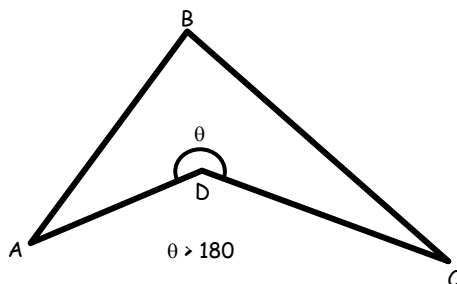
Cuando sus ángulos interiores son menores de 180° .



$$\alpha, \beta, \theta, \phi < 180^\circ$$

□ No Convexo :

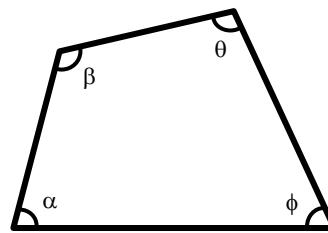
Cuando uno de los ángulos interiores mide más de 180° .



NOTACIÓN : $\square ABCD$

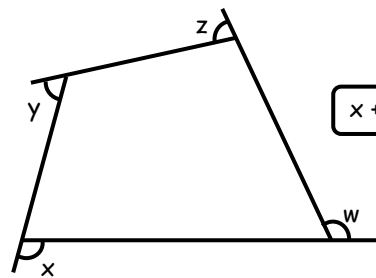
PROPIEDADES

1. Suma de Ángulos Internos



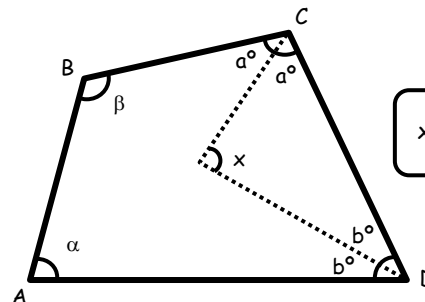
$$\alpha + \beta + \theta + \phi = 360^\circ$$

2. Suma de ángulos exteriores



$$x + y + z + w = 360^\circ$$

3. CASO ESPECIAL

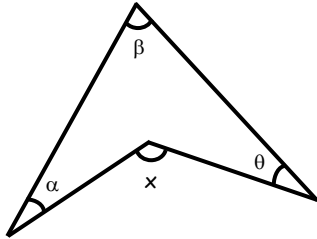


$$x = \frac{\alpha + \beta}{2}$$



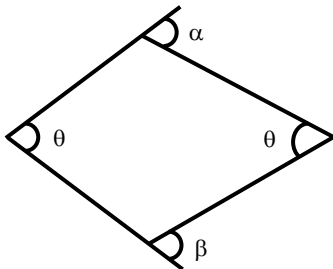
RECORDANDO

• Bumerang



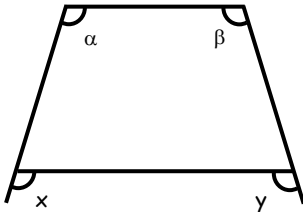
$$x = \alpha + \beta + \theta$$

• Pescadito



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

• Especial



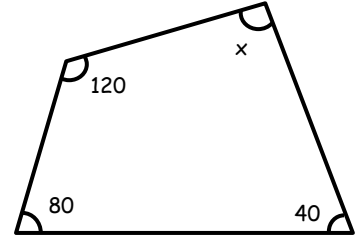
$$x + y = \alpha + \beta$$



EJERCICIOS DE APLICACIÓN

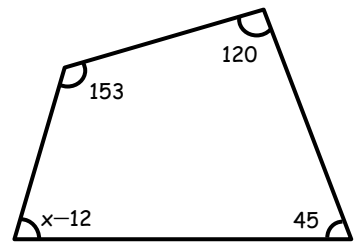
1. Calcular "x".

- a) 120
- b) 110
- c) 112
- d) 118
- e) 115



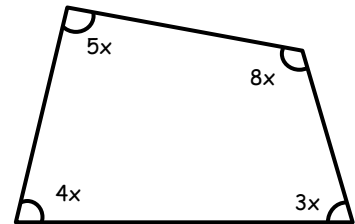
2. Calcular "x".

- a) 30
- b) 54
- c) 42
- d) 12
- e) 24



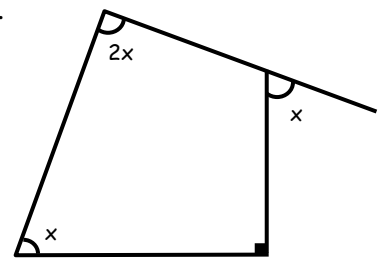
3. Calcular "x".

- a) 18
- b) 36
- c) 20
- d) 54
- e) 9



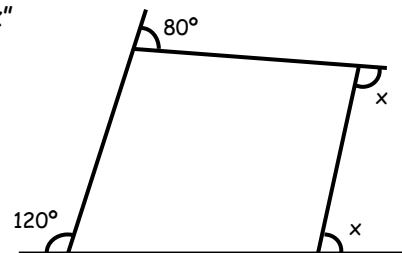
4. Calcular "x".

- a) 50
- b) 30
- c) 45
- d) 60
- e) 80



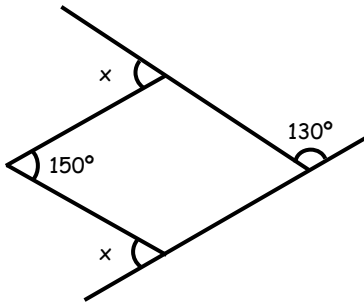
5. Calcular "x".

- a) 40
- b) 80
- c) 160
- d) 140
- e) 20



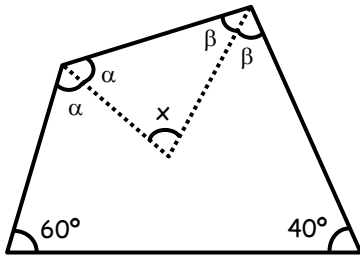
6. Calcular "x"

- a) 80
- b) 100
- c) 120
- d) 160
- e) 150



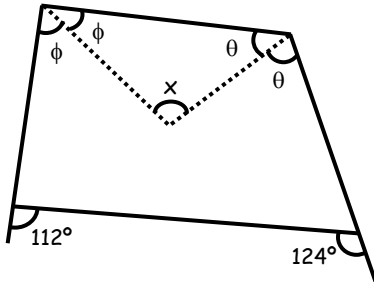
7. Calcular "x"

- a) 50
- b) 60
- c) 40
- d) 35
- e) 45



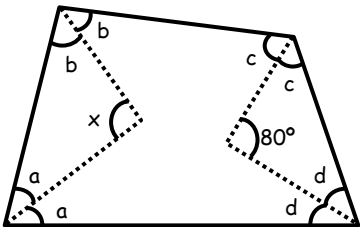
8. Calcular "x"

- a) 96
- b) 52
- c) 62
- d) 42
- e) 56



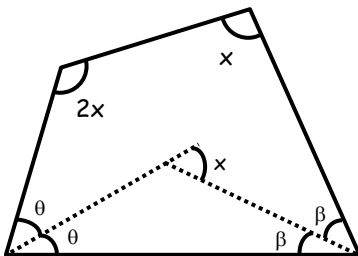
9. Calcular "x"

- a) 80
- b) 100
- c) 40
- d) 50
- e) 90



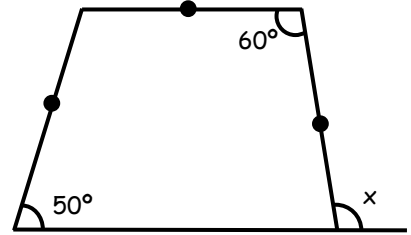
10. Calcular "x"

- a) 36
- b) 72
- c) 45
- d) 60
- e) 30



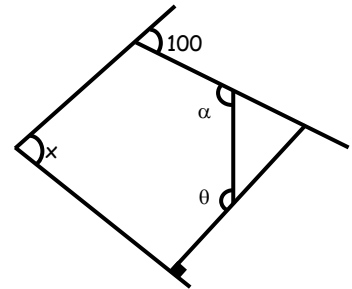
11. Calcular "x"

- a) 70
- b) 80
- c) 75
- d) 60
- e) 50



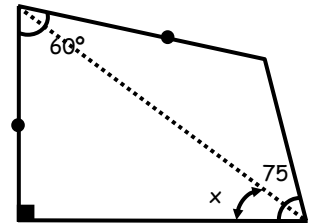
12. Calcular "x"; $\alpha + \theta = 300^\circ$

- a) 70
- b) 60
- c) 50
- d) 80
- e) 40



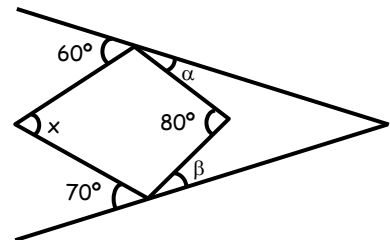
13. Calcular "x".

- a) 15
- b) 30
- c) 45
- d) 60
- e) 22,5



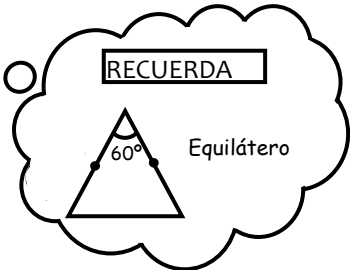
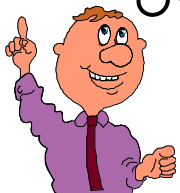
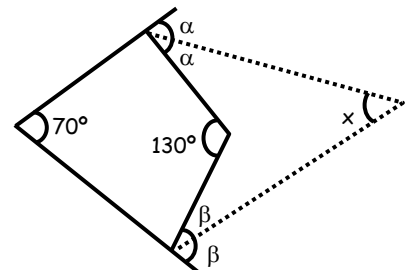
14. Calcular "x"; $\alpha + \beta = 20^\circ$

- a) 70
- b) 80
- c) 60
- d) 50
- e) 40



15. Calcular "x".

- a) 40
- b) 50
- c) 60
- d) 45
- e) 30

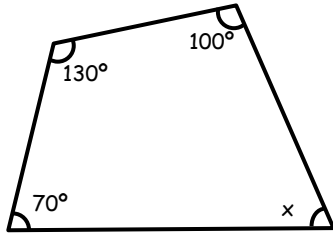


EL QUE ES PERSEVERANTE, LO CONSIGUE

Tarea Domiciliaria

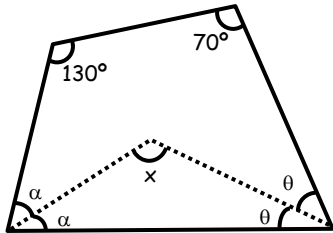
1. Calcular "x".

- a) 60
- b) 80
- c) 40
- d) 660
- e) 160



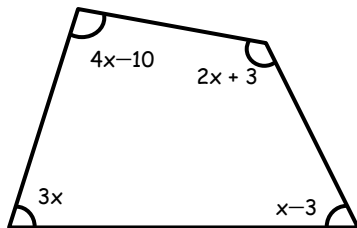
2. Calcular "x".

- a) 100
- b) 50
- c) 30
- d) 40
- e) 80



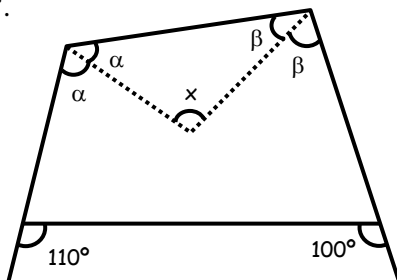
3. Calcular "x".

- a) 53
- b) 37
- c) 27
- d) 30
- e) 57



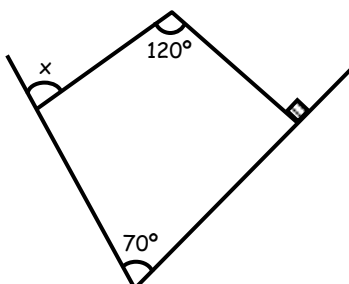
4. Calcular "x".

- a) 50
- b) 60
- c) 70
- d) 80
- e) 75



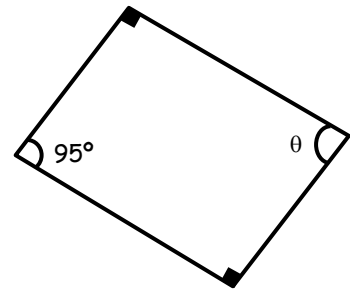
5. Calcular "x".

- a) 90
- b) 80
- c) 100
- d) 110
- e) 120



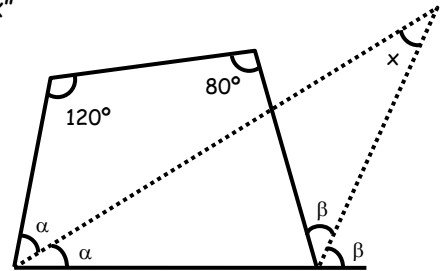
6. Calcular "theta".

- a) 85
- b) 95
- c) 75
- d) 105
- e) 115



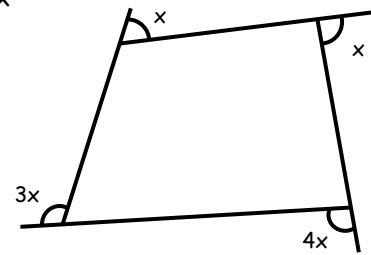
7. Calcular "x".

- a) 10
- b) 20
- c) 5
- d) 15
- e) 25



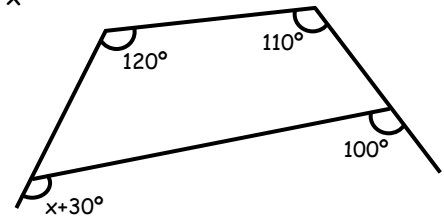
8. Calcular "x".

- a) 40
- b) 30
- c) 45
- d) 50
- e) 35



9. Calcular "x".

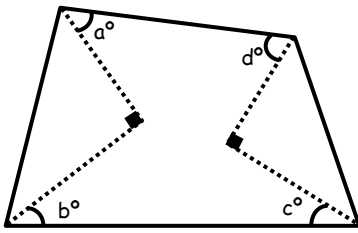
- a) 90
- b) 100
- c) 110
- d) 120
- e) 130



AHORA VAMOS A
TRABAJAR

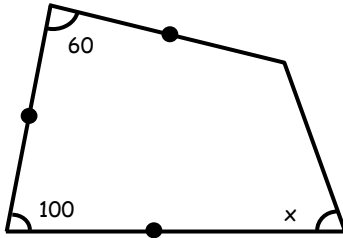
10. Calcular $a + b + c + d$

- a) 90
- b) 180
- c) 120
- d) 270
- e) 60



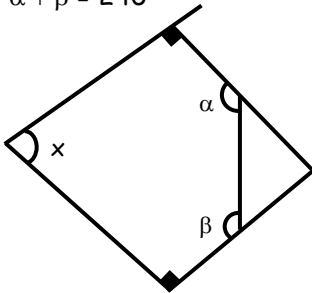
11. Calcular "x"

- a) 70
- b) 80
- c) 60
- d) 75
- e) 65



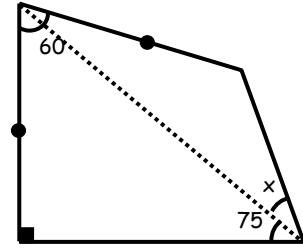
12. Calcular "x"; $\alpha + \beta = 240^\circ$

- a) 60
- b) 70
- c) 80
- d) 90
- e) 50



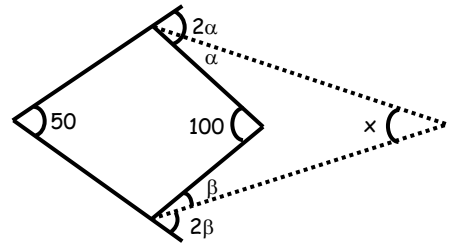
13. Calcular "x".

- a) 15
- b) 30
- c) 45
- d) 60
- e) 10



14. Calcular "x"

- a) 50
- b) 60
- c) 70
- d) 80
- e) 40



RETO DE LA SEMANA

15. Calcular "x"

- a) 6
- b) 8
- c) 10
- d) 12
- e) 9

