

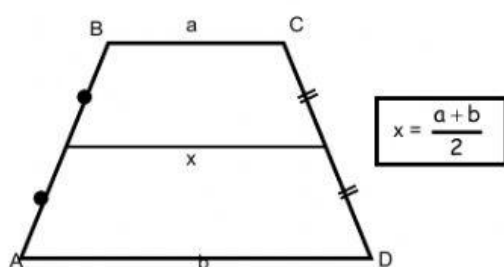
MATEMÁTICA

IV SECUNDARIA

Ficha 8: Trapecio-Propiedades

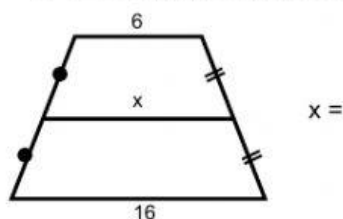
PROPIEDAD DE LA BASE MEDIA

En todo trapecio la base media o mediana es igual a la semisuma de las bases.

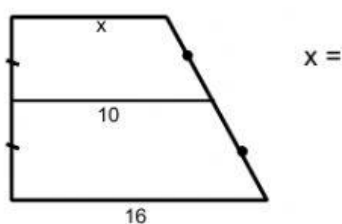


Ejemplos:

❖ Calcula la mediana del trapecio.

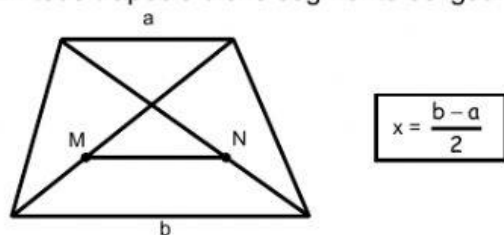


❖ Calcula "x"



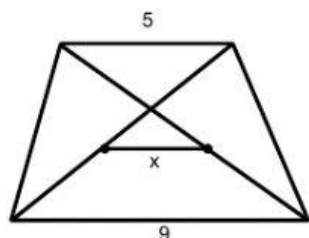
PROPIEDAD DEL SEGMENTO QUE UNE LOS PUNTOS MEDIOS DE LAS DIAGONALES

En todo trapecio dicho segmento es igual a la semidiferencia de las bases.



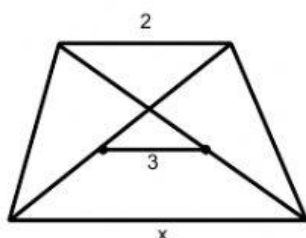
Ejemplos:

❖ Calcula "x"

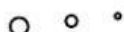


x =

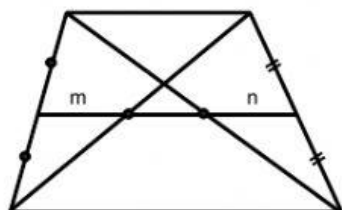
❖ Calcula "x"



x =



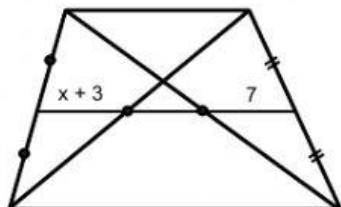
En todo trapezio se cumple:



$$m = n$$

Ejemplo:

Calcula "x"

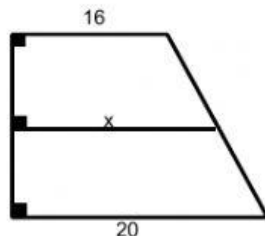




EJERCICIOS DE APLICACIÓN

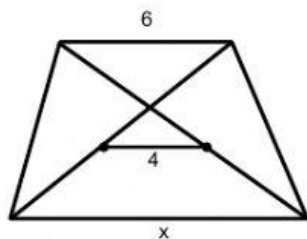
1. Calcula "x"

- a) 36
- b) 18
- c) 9
- d) 4
- e) 2



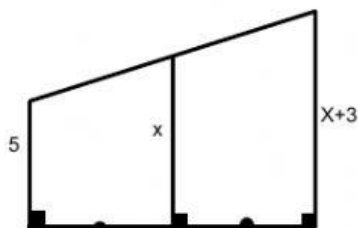
2. Calcula "x"

- a) 16
- b) 14
- c) 18
- d) 20
- e) 15



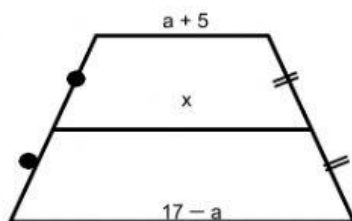
3. Calcula "x"

- a) 8
- b) 16
- c) 4
- d) 2
- e) 1



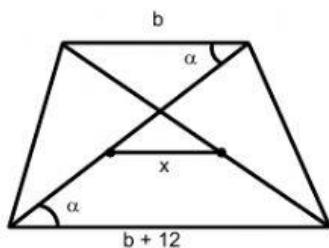
4. Calcula "x"

- a) 22
- b) 11
- c) $11 + 2a$
- d) 12
- e) 6



5. Calcula "x"

- a) 12
- b) 6
- c) 3
- d) 24
- e) 18

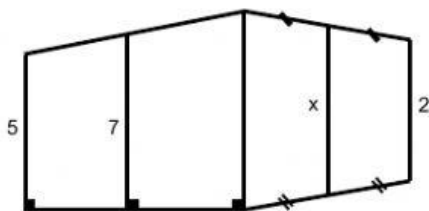


6. Las bases de un trapezio miden $x + 1$ y $2x + 7$; si la mediana es 7. Calcula "x"

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

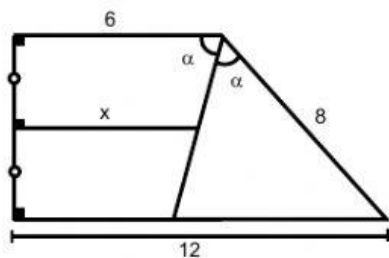
7. Calcula "x"

- a) 11
- b) 5,5
- c) 6,5
- d) 5
- e) 9



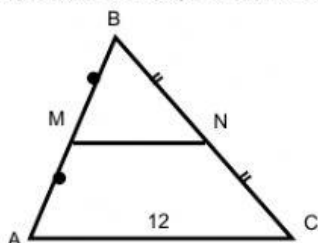
8. Calcula "x"

- a) 5
- b) 4
- c) 3
- d) 2
- e) 1



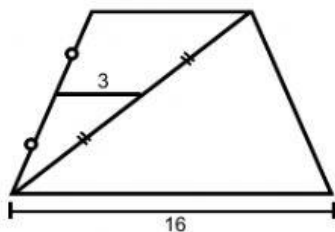
9. Calcula la mediana del trapecio AMNC

- a) 8
- b) 9
- c) 6
- d) 10
- e) 7



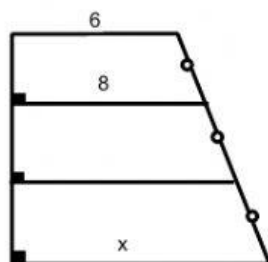
10. Calcula la mediana del trapecio.

- a) 11
- b) 22
- c) 5,5
- d) 10
- e) 5



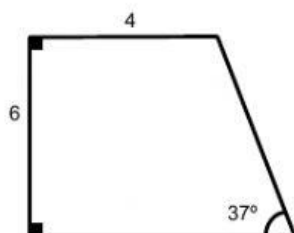
11. Calcula "x"

- a) 10
- b) 11
- c) 12
- d) 13
- e) 14



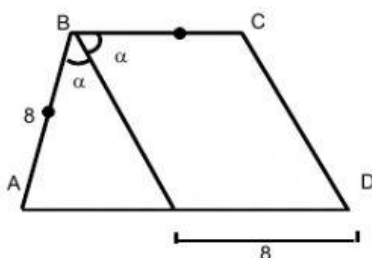
12. Calcula la mediana.

- a) 8
- b) 16
- c) 12
- d) 10
- e) 14



13. Calcula la mediana

- a) 18
- b) 14
- c) 20
- d) 13
- e) 12

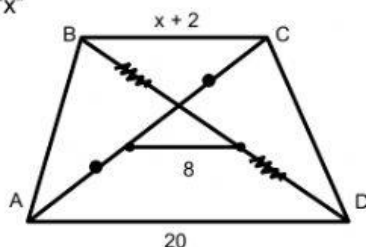


14. Si la mediana de un trapecio es 9m y la base mayor es 16. Calcula la base menor.

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

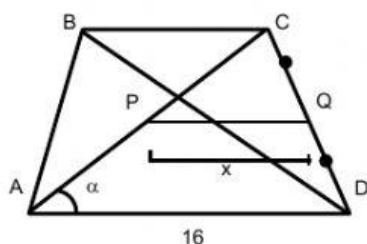
15. Calcula "x"

- a) 2
- b) 3
- c) 4
- d) 1
- e) 5



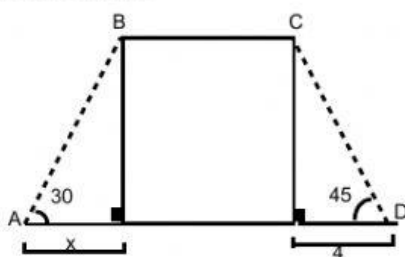
16. Calcula "x"; PQ // AD

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



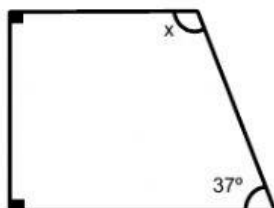
17. Calcula "x"; BC // AD

- a) 2
- b) $2\sqrt{3}$
- c) $4\sqrt{3}$
- d) 4
- e) 8



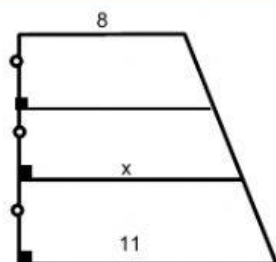
18. Calcula "x"

- a) 53
- b) 143
- c) 127
- d) 133
- e) 153



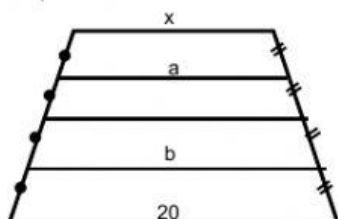
19. Calcula "x"

- a) 10
- b) 9
- c) 10,5
- d) 9,5
- e) 8,5



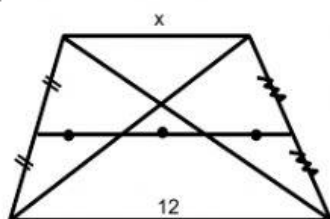
20. Calcula "x", $b - a = 14$

- a) 4
- b) 6
- c) 5
- d) 8
- e) 3



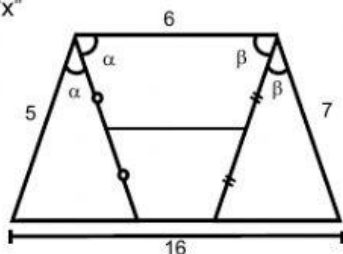
21. Calcula "x"

- a) 2
- b) 3
- c) 4
- d) 5
- e) 6



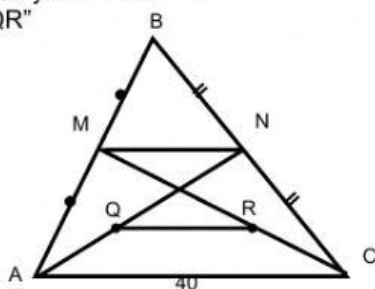
22. Calcula "x"

- a) 2
- b) 3
- c) 4
- d) 5
- e) 1



23. Si: $AQ = QN$ y $MR = RC$
Calcula "QR"

- a) 20
- b) 25
- c) 10
- d) 15
- e) 30



24. Calcula la mediana del trapecio isósceles.

- a) 11
- b) 5,5
- c) 6,5
- d) 5
- e) 6

