



fichas de Trabajo

RAZ. MATEMÁTICO

PROPORCIONALIDAD

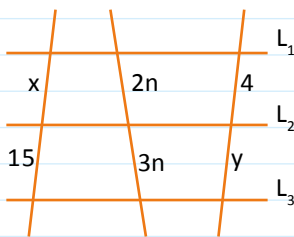
4^{to}

SECUNDARIA

Trabajando en Clase

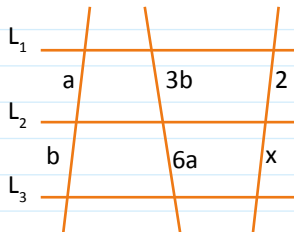
Nivel I

1. Si $\overline{L_1} \parallel \overline{L_2} \parallel \overline{L_3}$, calcula "x+y".



- a) 8 b) 9 c) 10
d) 12 e) 16

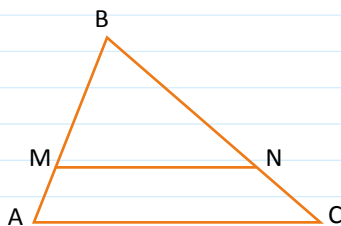
2. Si $\overline{L_1} \parallel \overline{L_2} \parallel \overline{L_3}$, calcula "x".



- a) 3 b) 2 c) 6
d) $2\sqrt{2}$ e) $6\sqrt{2}$

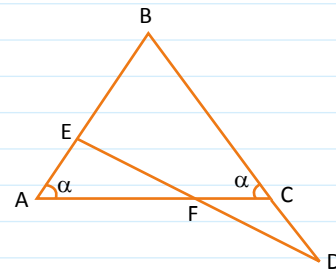
3. Calcula BN si $\overline{MN} \parallel \overline{AC}$,

$$\frac{BM}{AM} = \frac{5}{4} \text{ y } NC = 8$$



- a) 10 b) 5 c) 8
d) 15 e) 12

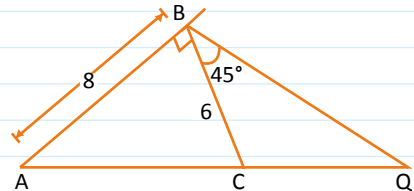
4. Halla DF si $AE = 5$; $EF = 8$ y $CD = 6$.



- a) 2,4 b) 3,6 c) 4,8
d) 6,4 e) 9,6

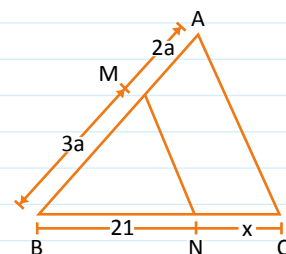
Nivel II

5. Calcula CQ.



- a) 5 b) 8 c) 10
d) 30 e) 15

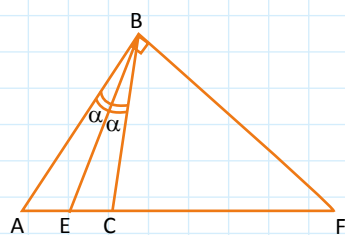
6. Calcula x si $\overline{MN} \parallel \overline{AC}$.



- a) 12 b) 14 c) 13
d) 15 e) 7

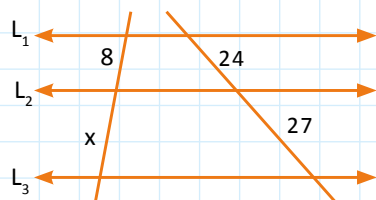
Nivel III

8. Calcula "CF" si $AE = 5$ y $EC = 3$.



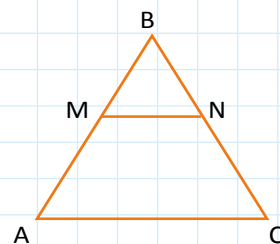
- a) 6 b) 9 c) 12
d) 16 e) 8

9. Si $\overline{L_1} \parallel \overline{L_2} \parallel \overline{L_3}$, calcula " $x+3$ ".



- a) 9 b) 10 c) 12
d) 15 e) 18

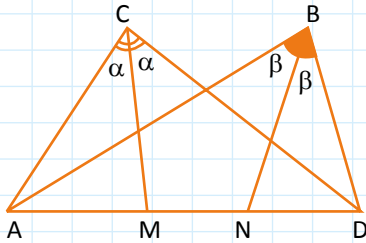
10. Calcula "MA" si $\overline{MN} \parallel \overline{AC}$, $AB = 12u$, $BC = 16u$ y $BN = 7u$.



- a) $\frac{3}{4}u$ b) $\frac{11}{4}u$ c) $\frac{21}{4}u$
d) $\frac{27}{4}u$ e) $\frac{13}{4}u$

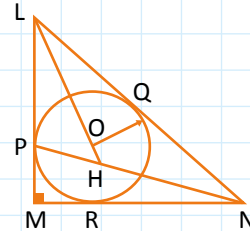
Tarea domiciliaria N°8

1. En la figura, $AM = MN = ND$. Calcula "AC" si $DB = 12u$ y $3(AB) = 4(CD)$.



Rpta :

2. Calcula "HN" si $HP = 4u$ y $m\angle MNL = 37^\circ$ ("P", "Q" y "R" son puntos de tangencia).

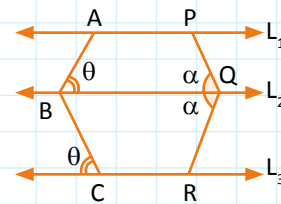


Rpta :

3. En un trapezoide ABCD las bisectrices de los ángulos "B" y "D" se cortan en un punto "E" de la diagonal $\overline{AC}$. Si $AB = 15u$, $BC = 10u$ y $CD = 12u$, calcula "AD".

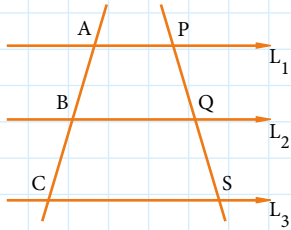
Rpta :

4. Si $\overline{L_1} \parallel \overline{L_2} \parallel \overline{L_3}$; $4(BC) = 5(AB)$ y $PQ = 16u$, calcula "QR".



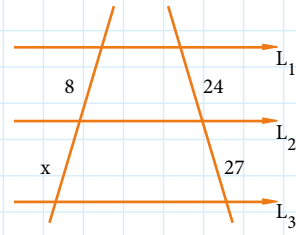
Rpta :

5. Si $\overline{L_1} \parallel \overline{L_2} \parallel \overline{L_3}$, $AB = x + 1$,
 $BC = 3x + 3$, $PQ = x$ y $SQ = 12$, halla AC .



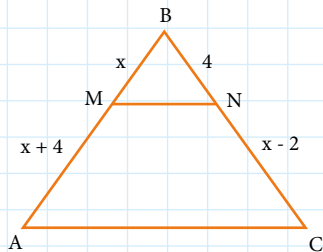
Rpta :

6. Si $\overline{L_1} \parallel \overline{L_2} \parallel \overline{L_3}$, calcula $x + 3$.



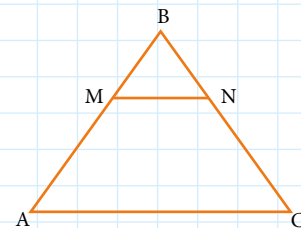
Rpta :

7. ¿Para qué valor de x , $\overline{MN} \parallel \overline{AC}$?



Rpta :

8. Calcula $\overline{MA}$ si $\overline{MN} \parallel \overline{AC}$,
 $AB = 12$, $BC = 16$ y $BN = 7$.



Rpta :