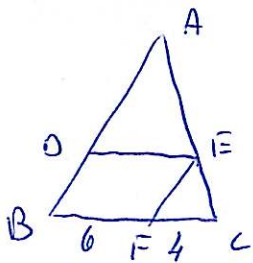


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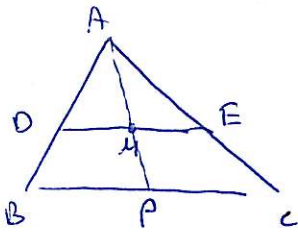
$$\frac{DE}{BC} = \frac{AD}{AB} \quad (\text{of } \Delta) \quad AD = x \quad \text{no}$$

$$\frac{6}{10} = \frac{x}{6+x}$$

$$36 + 6x = 10x$$

$$\boxed{x=9} \rightarrow AB = x+6 = 15$$

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$$\frac{AM}{AP} = \frac{2}{3}$$

(לכזר מנסים להיטות)  
( $\frac{2}{3}$  - / מיתות אחר מיתות)

$$\frac{AM}{AP} = \frac{DM}{BP}$$

$$(\text{of } \Delta) \rightarrow \frac{DM}{BP} = \frac{2}{3} \quad 3DM = 2BP \rightarrow DM = \frac{2}{3}BP$$

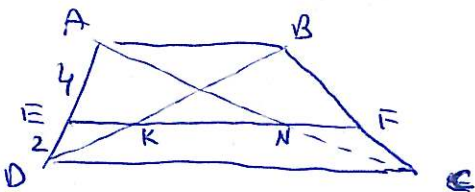
$$\frac{AM}{AP} = \frac{ME}{PC}$$

$$(\text{of } \Delta) \rightarrow \frac{ME}{PC} = \frac{2}{3} \quad 3ME = 2PC \rightarrow ME = \frac{2}{3}PC$$

$$\frac{DE}{BC} = \frac{DM+ME}{BP+PC} = \frac{\frac{2}{3}BP + \frac{2}{3}PC}{BP+PC} =$$

$$= \frac{\frac{2}{3}(BP+PC)}{BP+PC} = \frac{2}{3}$$

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(1)  $AB \parallel DC$   
(2)  $EF \parallel DC$

$\Downarrow$   
 $EF \parallel AB$

$$\frac{AD}{DE} = \frac{AN}{NC} \quad (\text{of } \Delta) \quad (\Delta ADC)$$

$$BF = y, AN = x \quad \text{no}$$

$$\frac{4}{2} = \frac{x}{9-x} \rightarrow x=6 \rightarrow AN=6, NC=3$$

$$\frac{AN}{NC} = \frac{BF}{FC} \quad (\text{of } \Delta) \quad (\Delta ABC)$$

$$\frac{6}{3} = \frac{y}{7.5-y} \rightarrow y=5 \rightarrow BF=5, FC=2.5$$

$$\frac{NF}{AB} = \frac{FC}{BC} \quad (\text{מחוקר } \Delta) \quad (\Delta ABC)$$

$$NF = z \quad \text{no}$$

$$\frac{z}{6} = \frac{2.5}{7.5} \rightarrow z=2$$

$$\frac{EK}{AB} = \frac{OE}{AD} \quad (\text{מחוקר } \Delta) \quad (\Delta ABD)$$

$$\frac{EK}{6} = \frac{2}{6} \rightarrow EK=2$$