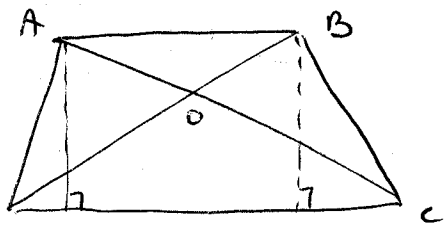


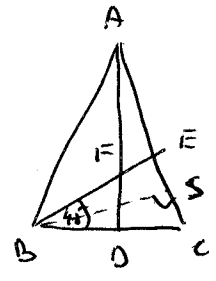
16



DC - f D - B - N תחתית זווית $\angle C$
 • מרחק מנקודה \leftarrow פסגה
 $S_{ADC} = \frac{h \cdot DC}{2} = \frac{h \cdot DC}{2} = S_{BDC}$

$S_{ADC} - S_{ODC} = S_{ADO}$
 $S_{BDC} - S_{ODC} = S_{BOC}$

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אז $AD \parallel EF \leftarrow$ ציורה בקנה אחד עם AD
 $\angle F = \angle BFD \leftarrow$
 \Downarrow
 $4 = \frac{1}{2} BC = BD = DF$
 $S_{BDF} = \frac{4 \cdot 4}{2} = 8$

$\frac{1}{3}, \frac{2}{3}$ הוא גובה AD , $AD = 12$

$AD = 12 \leftarrow AF = 2FD = 8$
 $S_{ABC} = \frac{BC \cdot AD}{2} = \frac{8 \cdot 12}{2} = 48$

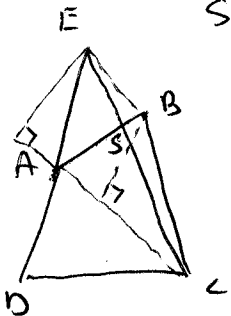
$S_{ABF} = \frac{1}{2} S_{ABC} - S_{BDF} = \frac{1}{2} \cdot 48 - 8 = 16$

$S_{BEC} = \frac{BS \cdot EC}{2} = \frac{BS \cdot AE}{2} = S_{ABE}$
 \downarrow
 $EC = AE$

$S_{AEC} = S_{ABE} = \frac{1}{2} S_{ABC} = \frac{1}{2} \cdot 48 = 24$
 $S_{AFE} = S_{ABE} - S_{ABF} = 24 - 16 = 8$
 $S_{BEC} = \frac{1}{2} S_{ABC} = \frac{1}{2} \cdot 48 = 24$

http://hesbonia.com/7/הוכחות/שאלות/7

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$S_{EDC} = S_{ASD} + S_{AES}$
 $S_{ABCD} = S_{ASD} + S_{BSC}$

AC - f E - B - N תחתית זווית $\angle C$
 (אלוהי $\angle C$ + אלכטרון $\angle C$) פסגה

$S_{ABC} = S_{AEC} = \frac{h \cdot AC}{2}$
 $S_{EAC} = \frac{h \cdot AC}{2}$
 \Downarrow
 $S_{ABC} = S_{EAC}$

מרחק מנקודה \leftarrow זווית
 $S_{AES} = S_{AEC} - S_{ASC}$
 $S_{BSC} = S_{ABC} - S_{ASC}$
 \Downarrow
 $S_{AES} = S_{BSC}$