

$$\frac{BC \parallel DE}{\frac{S_{BDE}}{S_{BDE'}} = \frac{1}{2}}$$

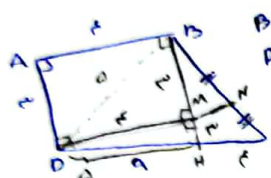
$$S_{BDE} = \frac{1}{2} \times BC \times EH$$

$$S_{BDE'} = \frac{1}{2} \times DE \times BH'$$

$$DE \parallel BH \Rightarrow EH = BH' \text{ (مساوی)}$$

$$\frac{S_{BDE}}{S_{BDE'}} = \frac{BC}{DE} \Rightarrow \frac{BC}{DE} = \frac{1}{2} \quad (I)$$

$$DE \parallel BC \Rightarrow \frac{AD+DB}{AB} = \frac{BC}{DE} = \frac{1}{2} \Rightarrow (I)$$



$$BH \parallel AD$$

$$DM \parallel AB$$

$$BDC = BDM$$

$$\Rightarrow MN \leq \frac{1}{2} BC$$

$$AD \parallel BM$$

$$AB \parallel DM$$

$$\hat{A} \leq 90^\circ$$

$$\Rightarrow AD \parallel BM \Rightarrow AB \leq DM \leq \frac{1}{2} BC$$

$$DM^2 + MD^2 \leq DB^2 \Rightarrow DB \leq \frac{1}{2} BC$$

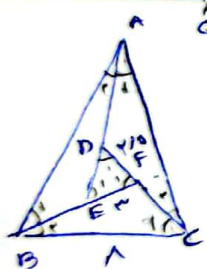
$$\frac{DM}{MH} = \frac{BN}{NC} \Rightarrow \frac{DM}{MH} = \frac{BN}{NC} \Rightarrow DM \leq MH \leq \frac{1}{2} BC$$

$$MN \parallel HC \Rightarrow \frac{DM}{MH} = \frac{MN}{CH} \Rightarrow MN \leq \frac{1}{2} BC$$

$$BDC = BDM \Rightarrow BDM \leq BDC$$

$$\hat{BMD} \leq \hat{BDC} \Rightarrow \hat{BMD} \leq \hat{BDC} \Rightarrow DB \leq DH \leq \frac{1}{2} BC$$

$$DM^2 + MD^2 \leq DH^2 \Rightarrow DM \leq DH \leq \frac{1}{2} BC$$



$$\hat{A} \leq \hat{B} \leq \hat{C}$$

$$EF \leq \frac{1}{2} BC$$

$$AD \leq \frac{1}{2} BC$$

$$\hat{E} \leq \hat{B} + \hat{A} \Rightarrow \hat{E} \leq \hat{B} + \hat{A}$$

$$\hat{A} \leq \hat{A} + \hat{A} \Rightarrow \hat{A} \leq \hat{A} + \hat{A}$$

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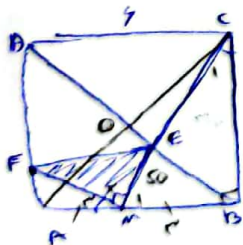
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$$AB \leq \frac{1}{2} BC$$

$$BCE \leq AMF$$

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