

Bài 2010
Trang 28

c) G
a/m
d) G

a) Tứ giác BTHD là hình gì?

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b) $C_{MR} M, H, D$ thẳng hàng $AH = 20M$

c) Given E, F, K là chân đường cao từ A
 g/m $AE \cdot AC = AF \cdot AB$

d) for $AD \perp EF$

[illegible]

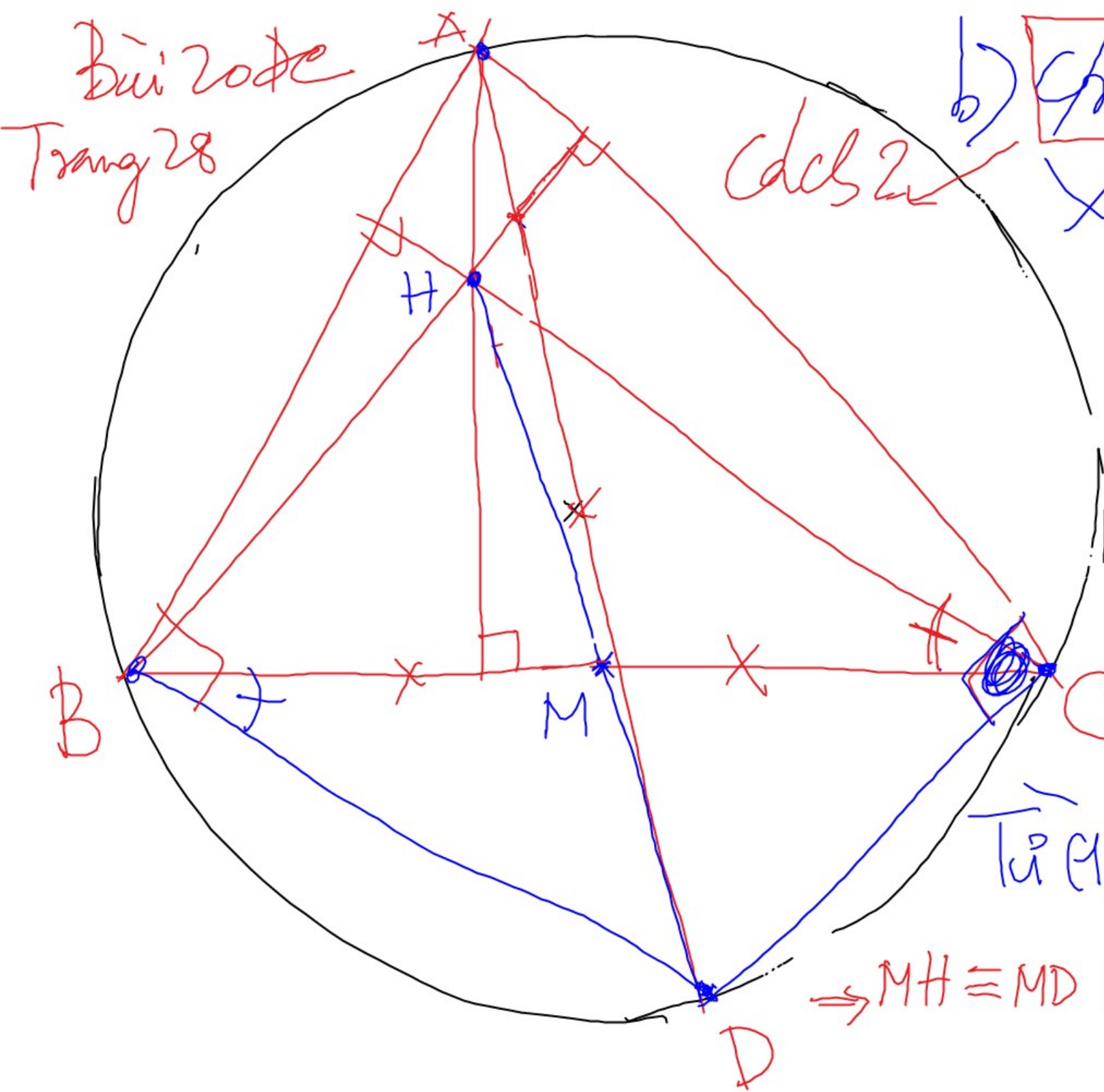
a) BHCĐ là hình gì?

$$\left. \begin{array}{l} BD // CH \\ BH // CD \end{array} \right\} \Rightarrow \underline{\underline{BHCD \text{ is a rhombus}}}$$

b) $\left\{ \begin{array}{l} M \text{ là trung điểm của} \\ BC \text{ \& } BC \text{ là đường chéo hình} \end{array} \right.$
 $\Rightarrow M$ là giao điểm của 2 đường
 chéo của hình bình hành

$\rightarrow M \in \mathbb{H}^D$ & $M_H = \text{red.}$

$\Rightarrow M, H, D$ thẳng hàng



b) \square cm M, H, D thẳng hàng

Xét $\triangle CMH$ và $\triangle BMD$ x

$$\begin{cases} CM = BM \text{ (gt)} \\ HC = DB \text{ (h.b.h)} \\ \widehat{HCM} = \widehat{DBM} \text{ (Sole trong)} \end{cases}$$

$$\Rightarrow \triangle CMH = \triangle BMD$$

$$\Rightarrow \widehat{MHC} = \widehat{MDB} \text{ (1) (góc tương ứng)}$$

$$\Rightarrow HC \parallel BD \text{ (2)}$$

$$\text{Từ (1) \& (2)} \Rightarrow MH \parallel MD \text{ (góc có cạnh tương ứng song song thì bằng nhau)}$$

$$\Rightarrow MH \equiv MD \text{ hay M, H, D thẳng hàng}$$



c) $\boxed{AE, AC \Rightarrow AF, AB}$

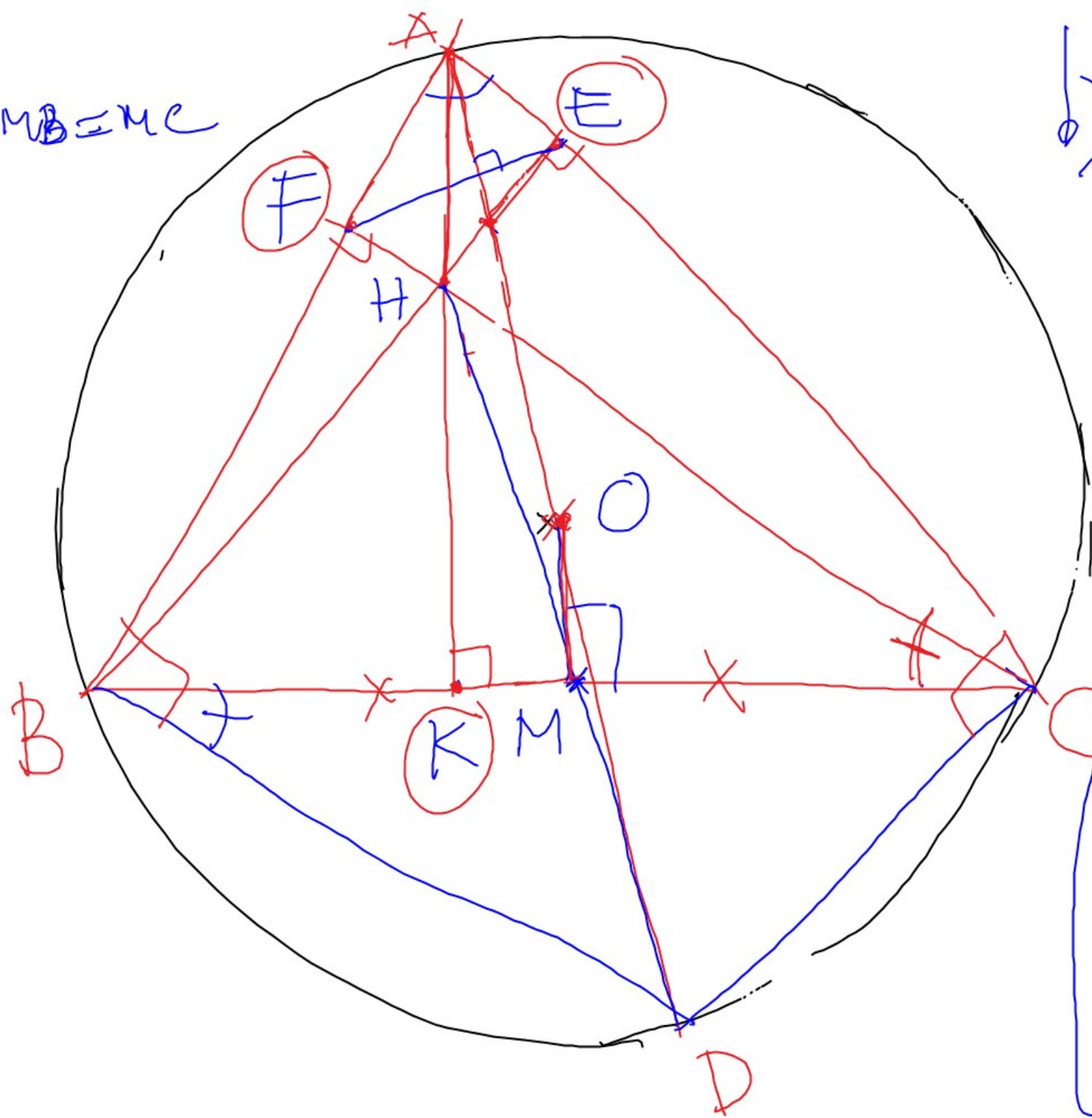
$$\Delta AEB \text{ \& } \Delta AFC \text{ (Vuong)}$$

\hat{A} chung $\Rightarrow \Delta AEB \sim \Delta AFC$

$$\Rightarrow \frac{AE}{AF} = \frac{AB}{AC}$$

$$\Rightarrow AE \cdot AC = AF \cdot AB$$

$$MB = MC$$



b) $CMR \quad AH = 2OM$
 OM là đường trung bình ΔAHD
 $\Rightarrow AH \parallel OM$ và $AH = 2OM$

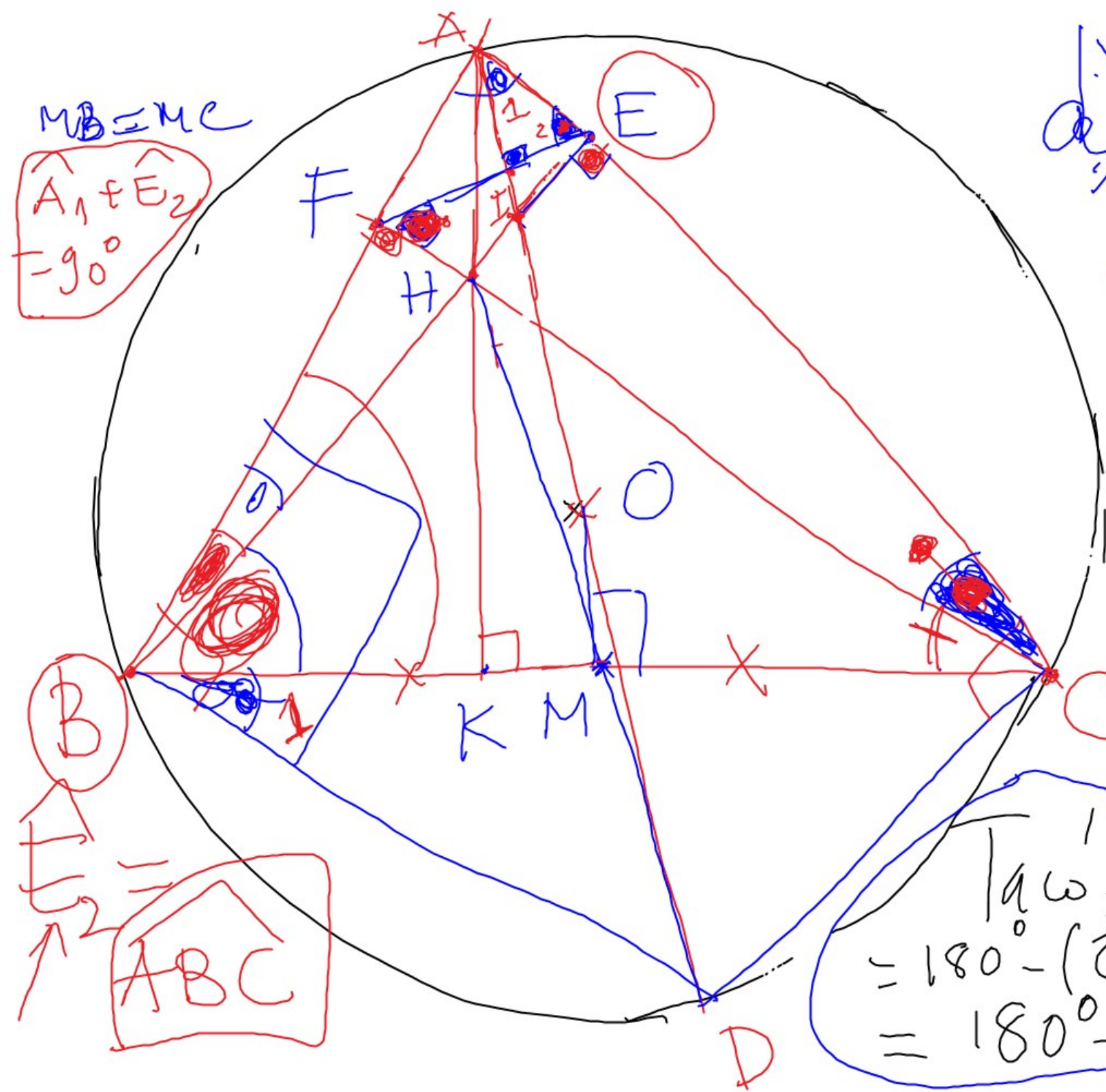
c) $AE \cdot AC = AF \cdot AB$
 $\Rightarrow \frac{AE}{AB} = \frac{AF}{AC}$

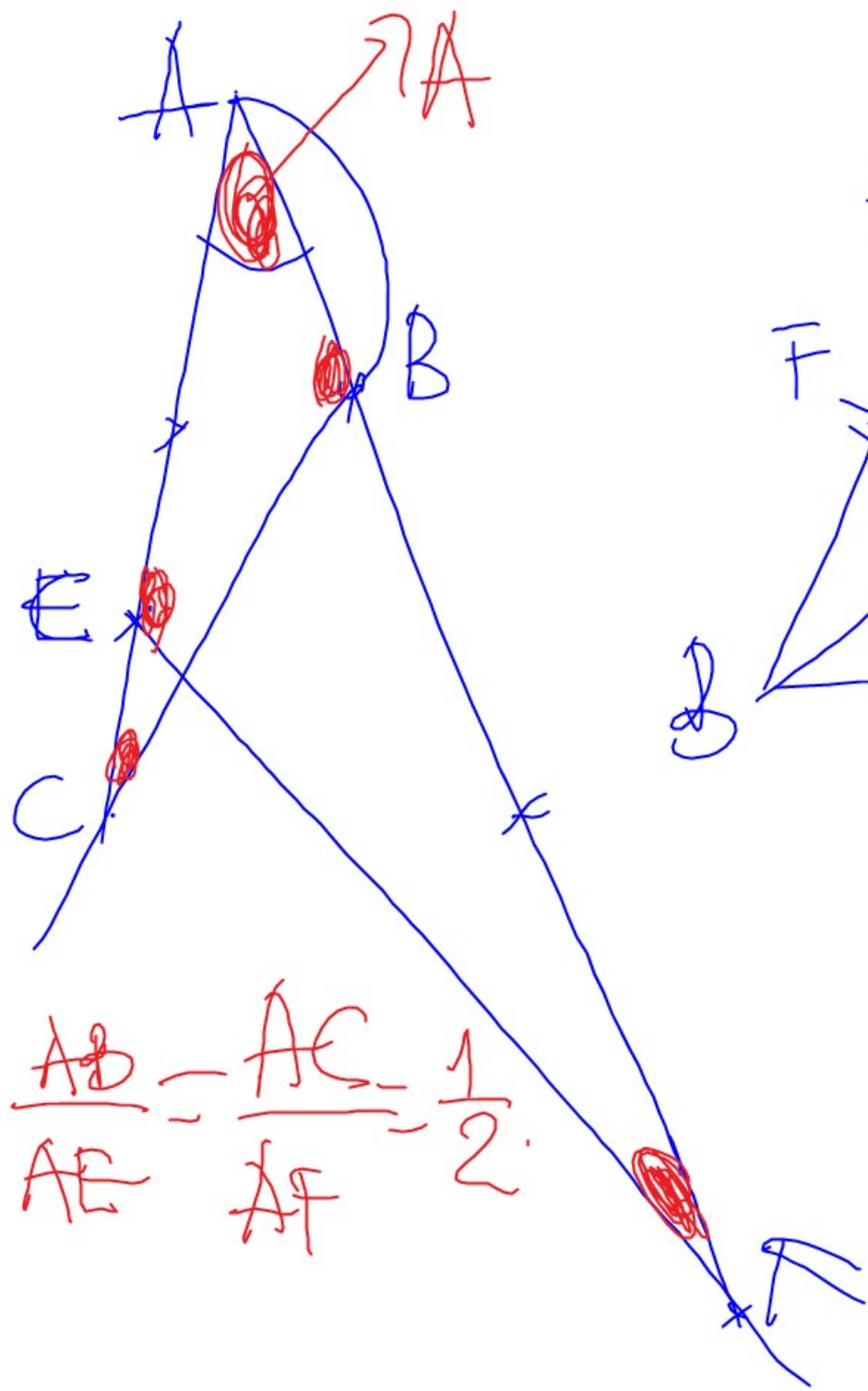
$AB \cdot AC = 2AK \cdot R$
 $AB \cdot CF = AK \cdot BC$
 $AB \cdot AC = AB \cdot CF$

$$MB = MC$$

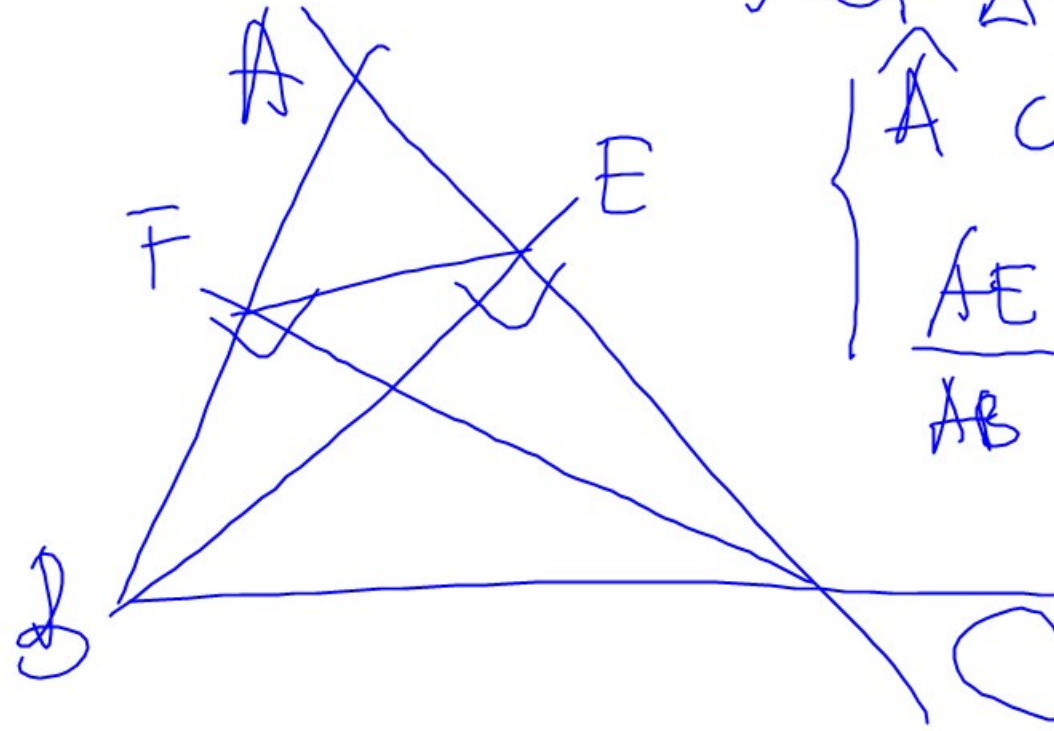
$$\widehat{A_1} \neq \widehat{E_2}$$

$$\angle = 90^\circ$$





$$\frac{AB}{AE} = \frac{AC}{AF} = \frac{1}{2}$$



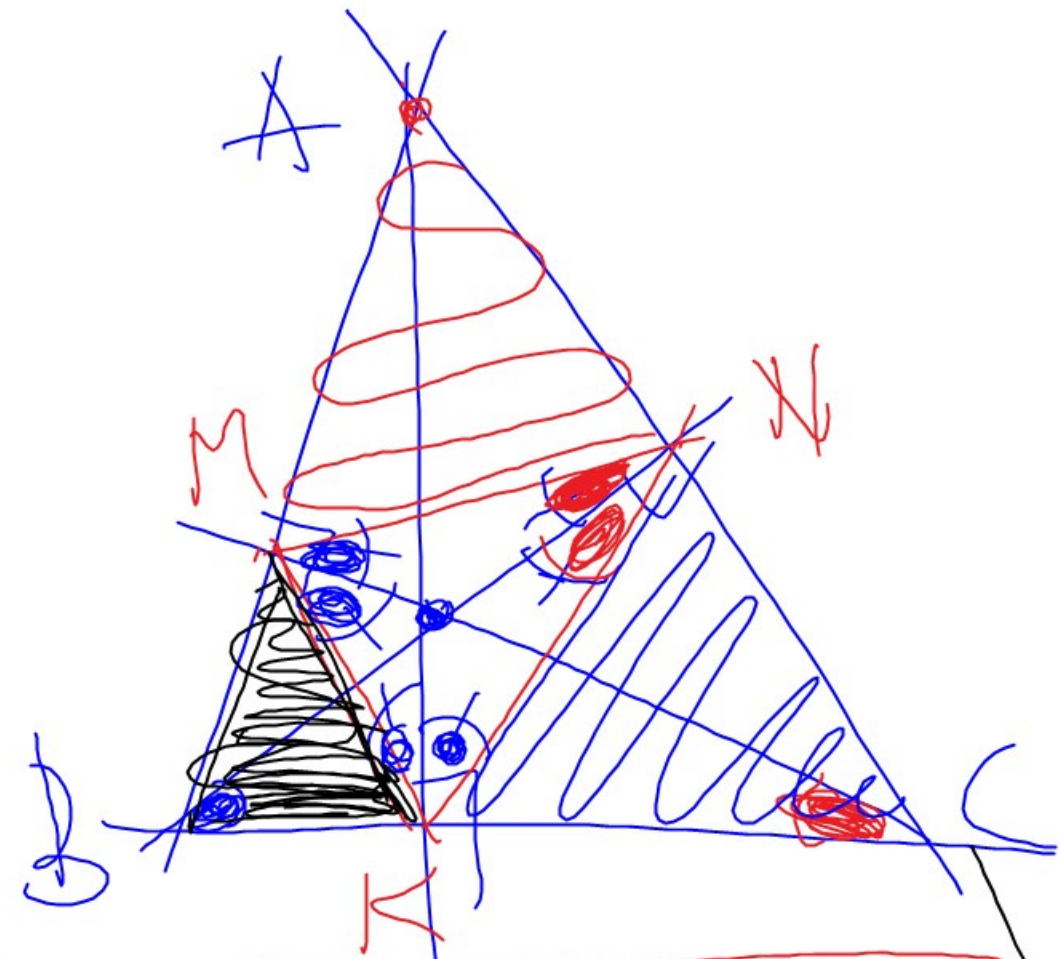
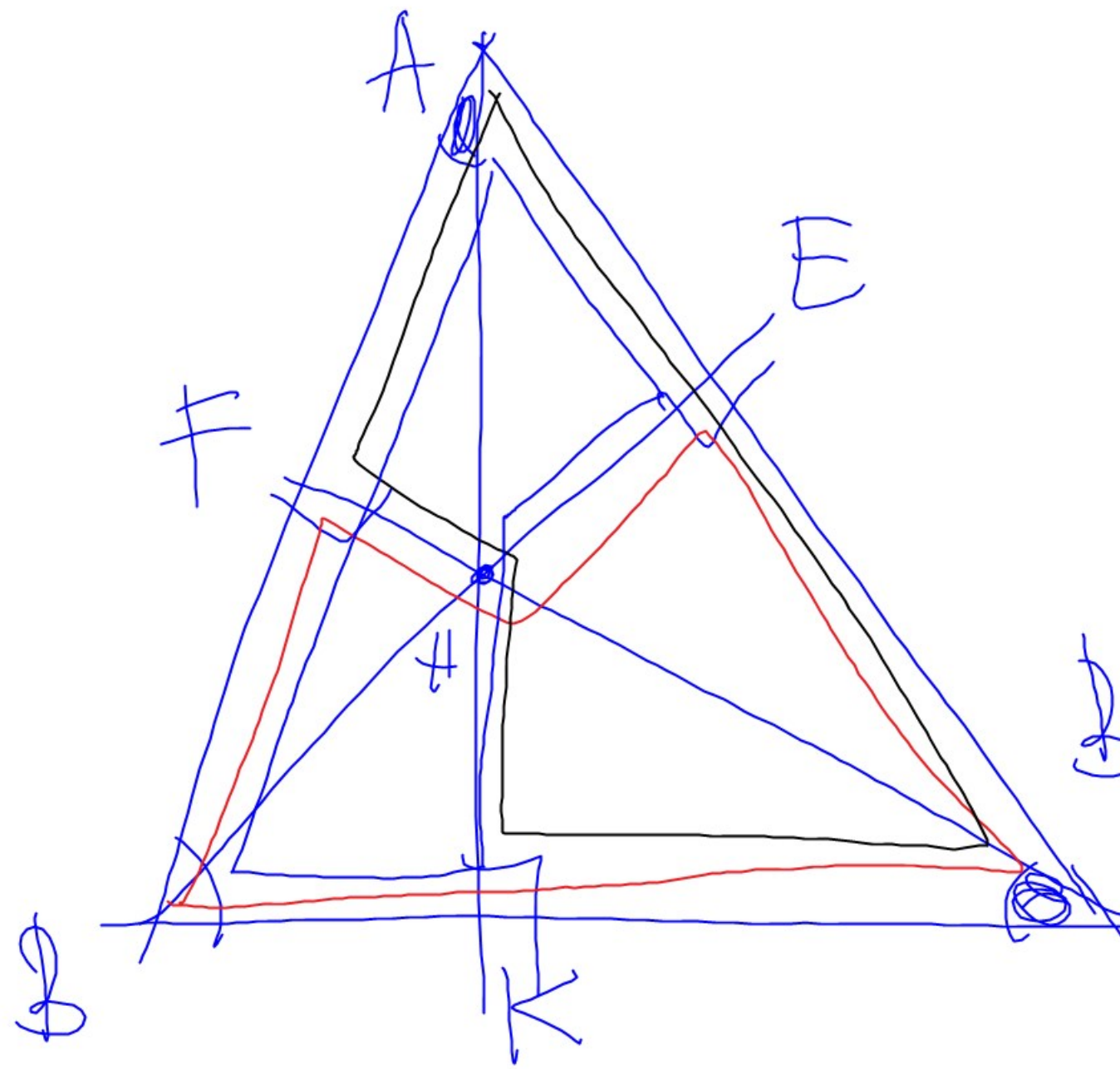
Let $\triangle AEF \sim \triangle ABC$

\hat{A} chung

$$\frac{AE}{AB} = \frac{AF}{AC} \text{ (amb)}$$

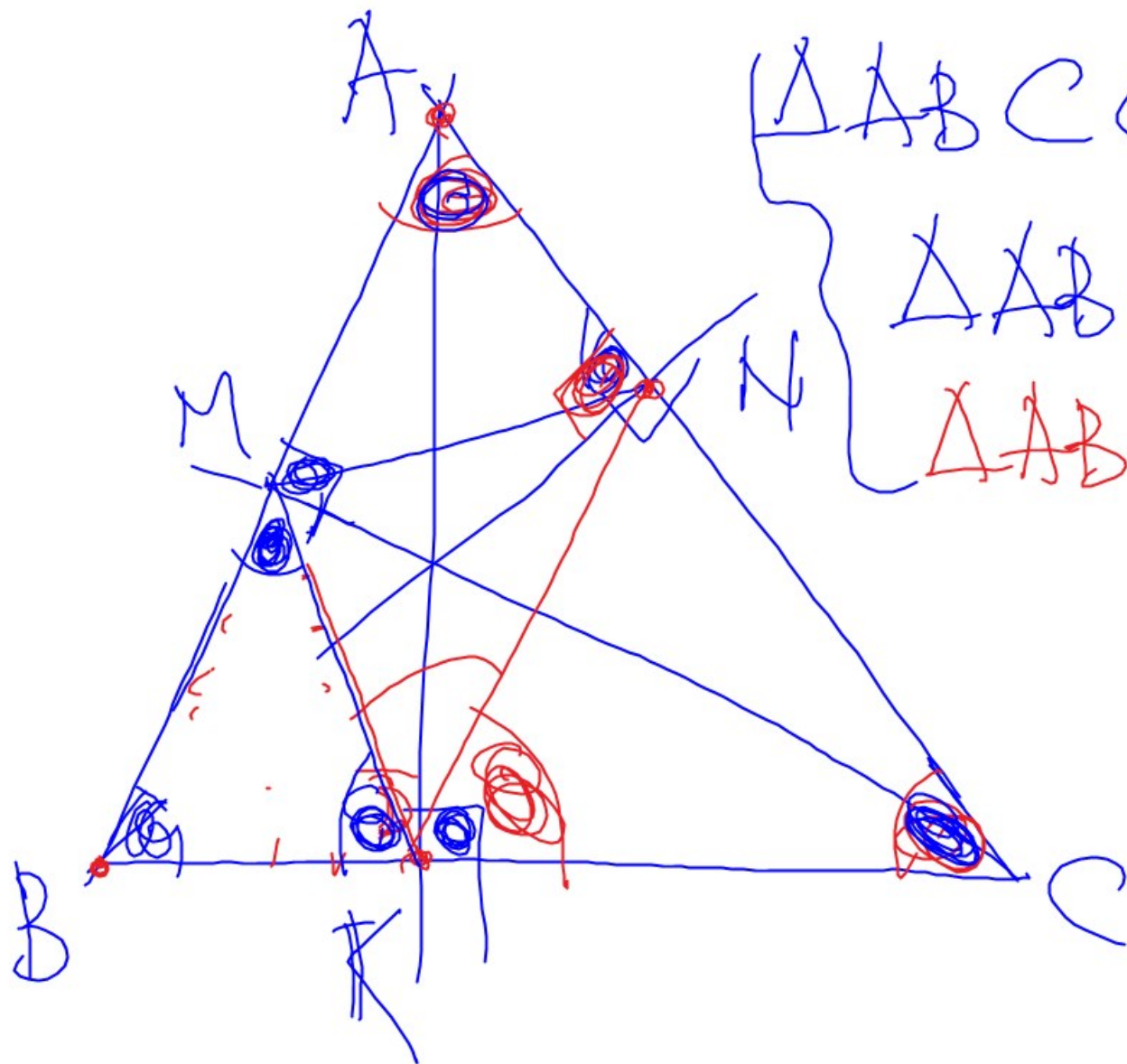
$$\Rightarrow \triangle AEF \sim \triangle ABC$$

$$\Rightarrow \hat{AEF} = \hat{ABC}$$



$\Delta ABC \cap \Delta MNM$

$\cap \Delta BKM$



$\triangle ABC \sim \triangle ANM$

$\triangle ABC \sim \triangle KNC$

$\triangle ABC \sim \triangle KBM$