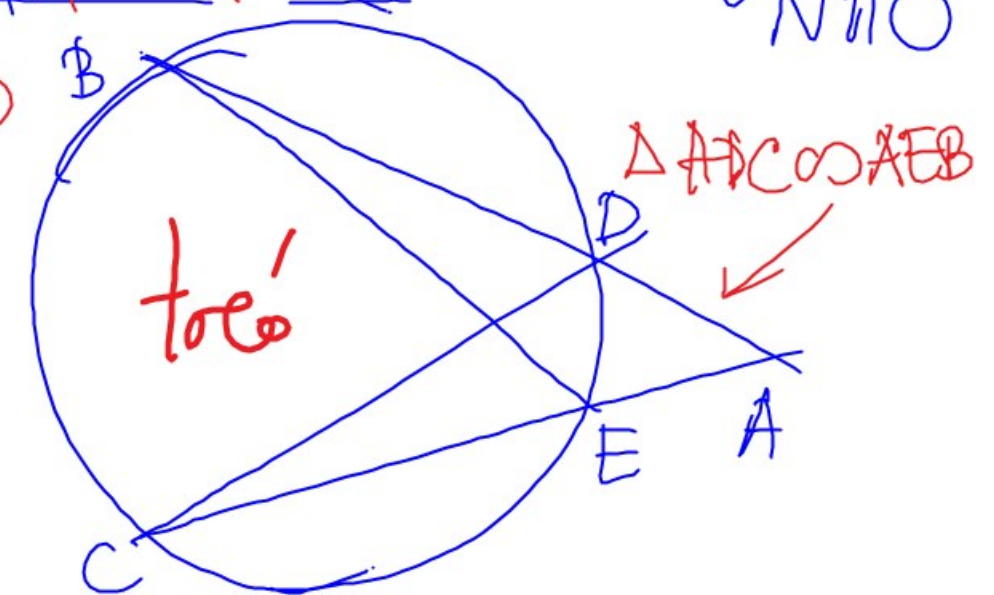
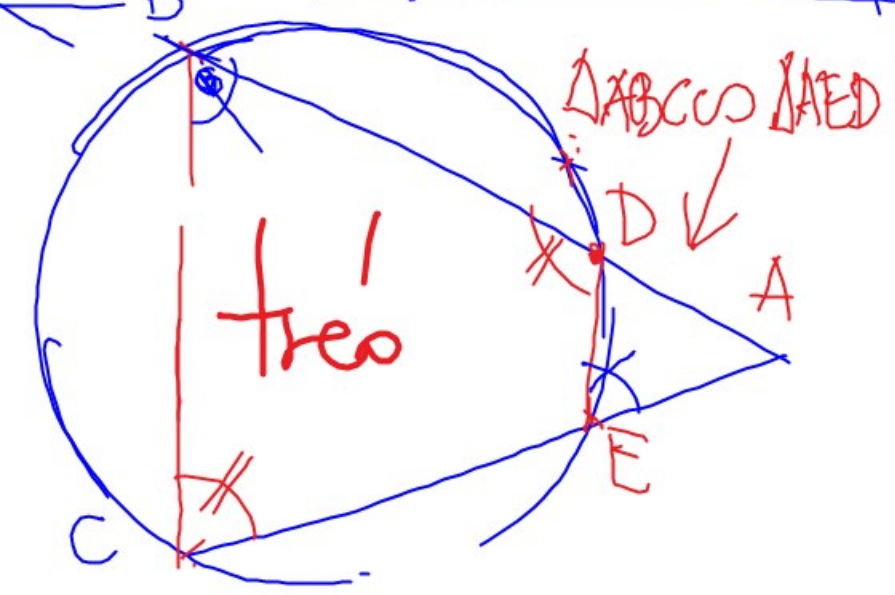
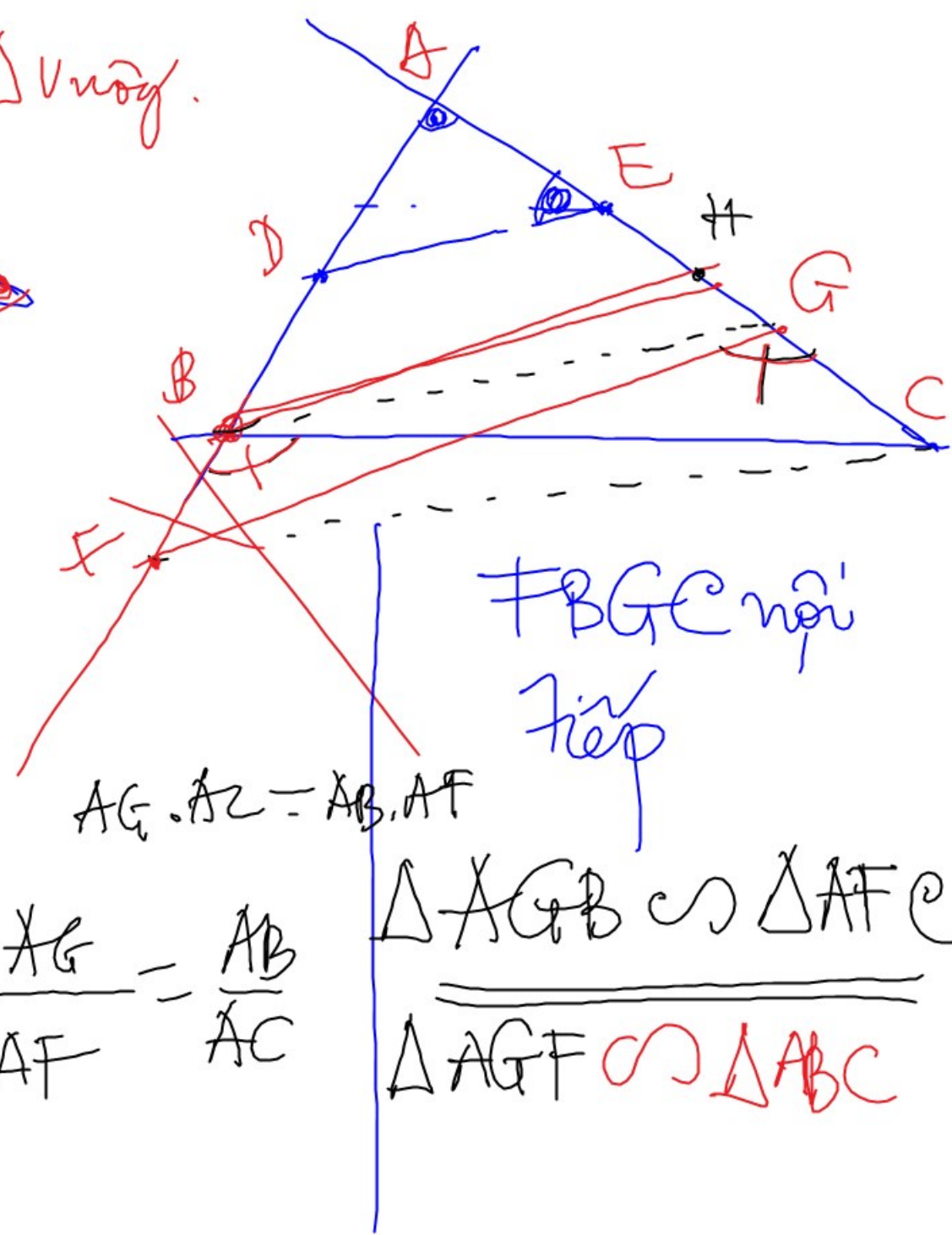
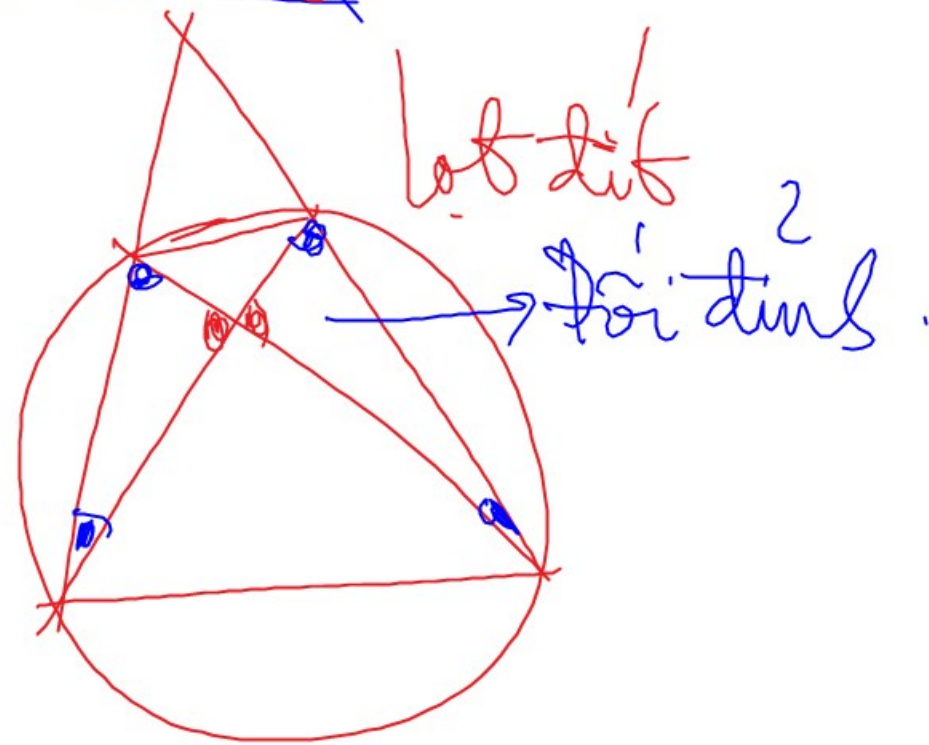
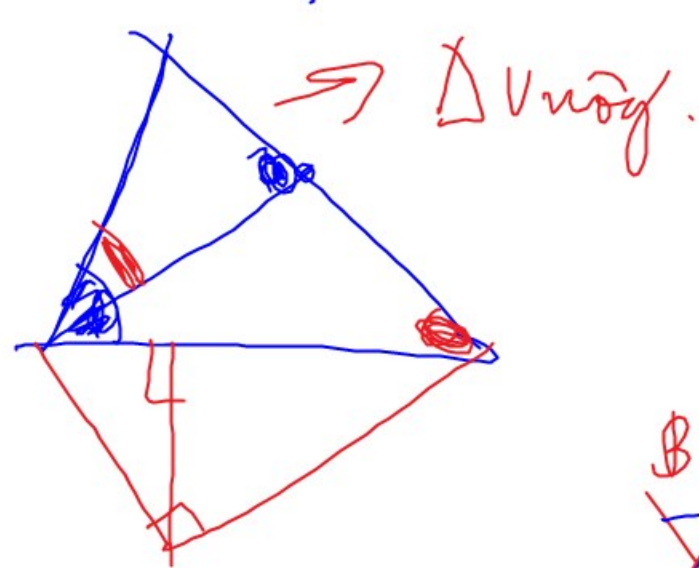
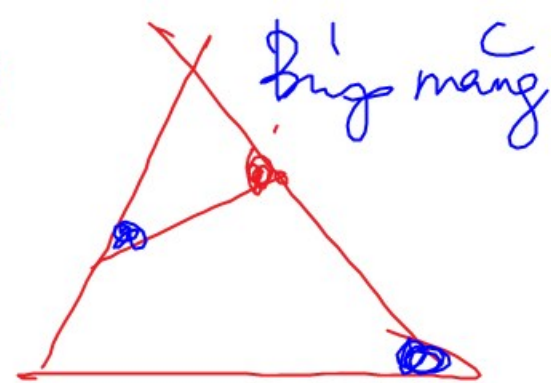
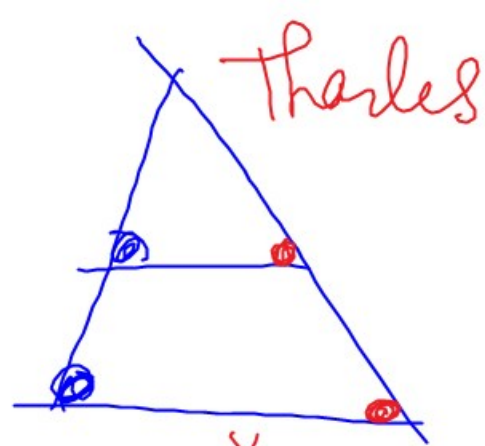


$AC^2 = CD \cdot CB$

Cung góc như LON







- $\triangle BDF \sim \triangle EDE \Rightarrow BD \cdot DE = DF \cdot DE$  (Bảng 1)
- $\triangle BDA \sim \triangle HDE \Rightarrow BD \cdot DC = DH \cdot DA$  (Mặt cắt con)

• Lot từ  $\triangle BDA \sim \triangle BDE$

•  $\triangle HFA \sim \triangle HDE$  (đôi đỉnh  $\rightarrow$  Đỉnh)

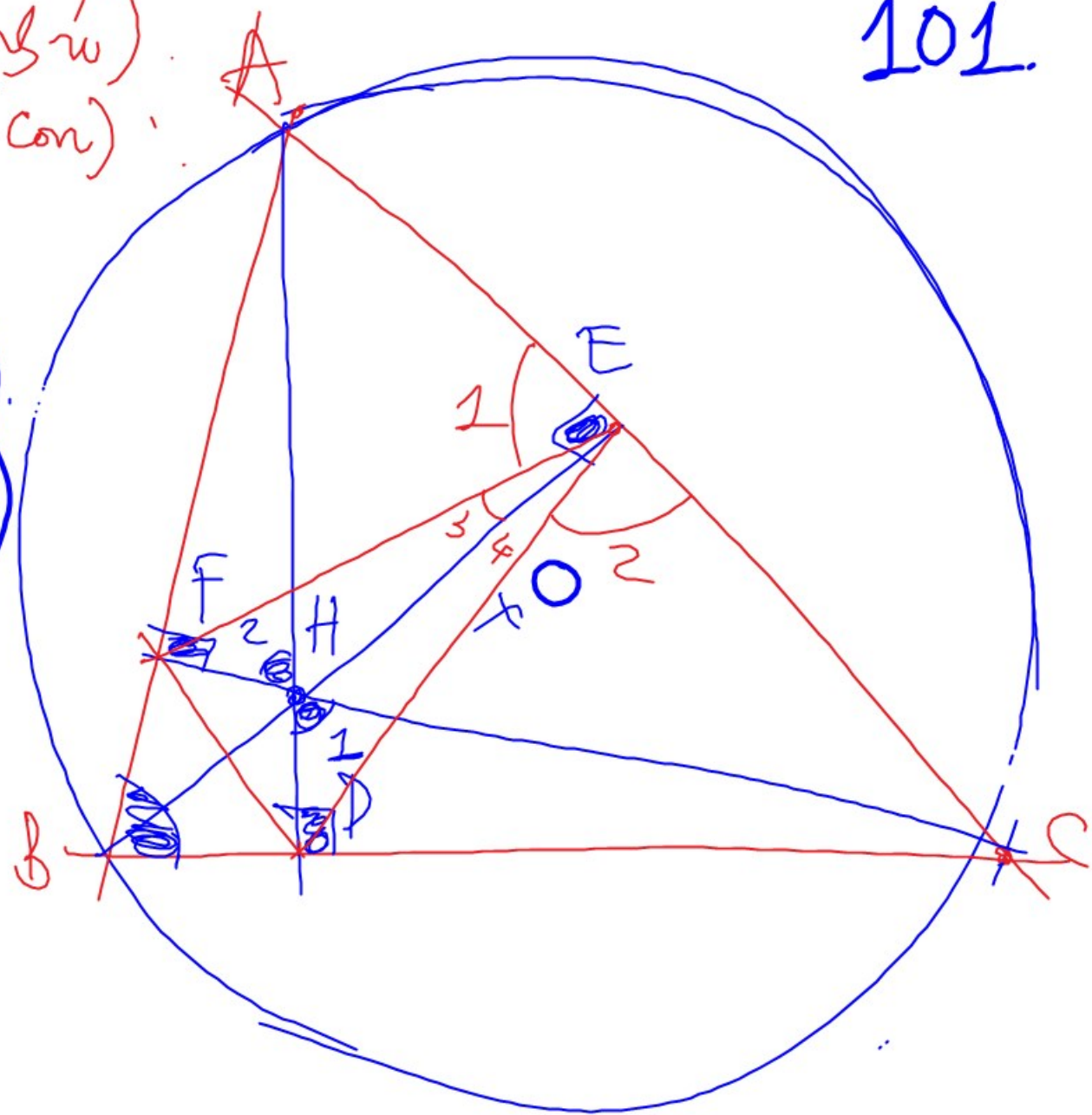
•  $AF \cdot AB = AH \cdot AD = AE \cdot AC$  (Bất đẳng thức)  
(Cắt tuyến chung)

$$\hat{B} = \hat{H}_1 = \hat{H}_2 = \hat{E}_1 = \hat{E}_2$$

•  $\hat{E}_3 = \hat{E}_4$  } Chân đường cao và đỉnh đôi  
đỉnh là tia phân giác

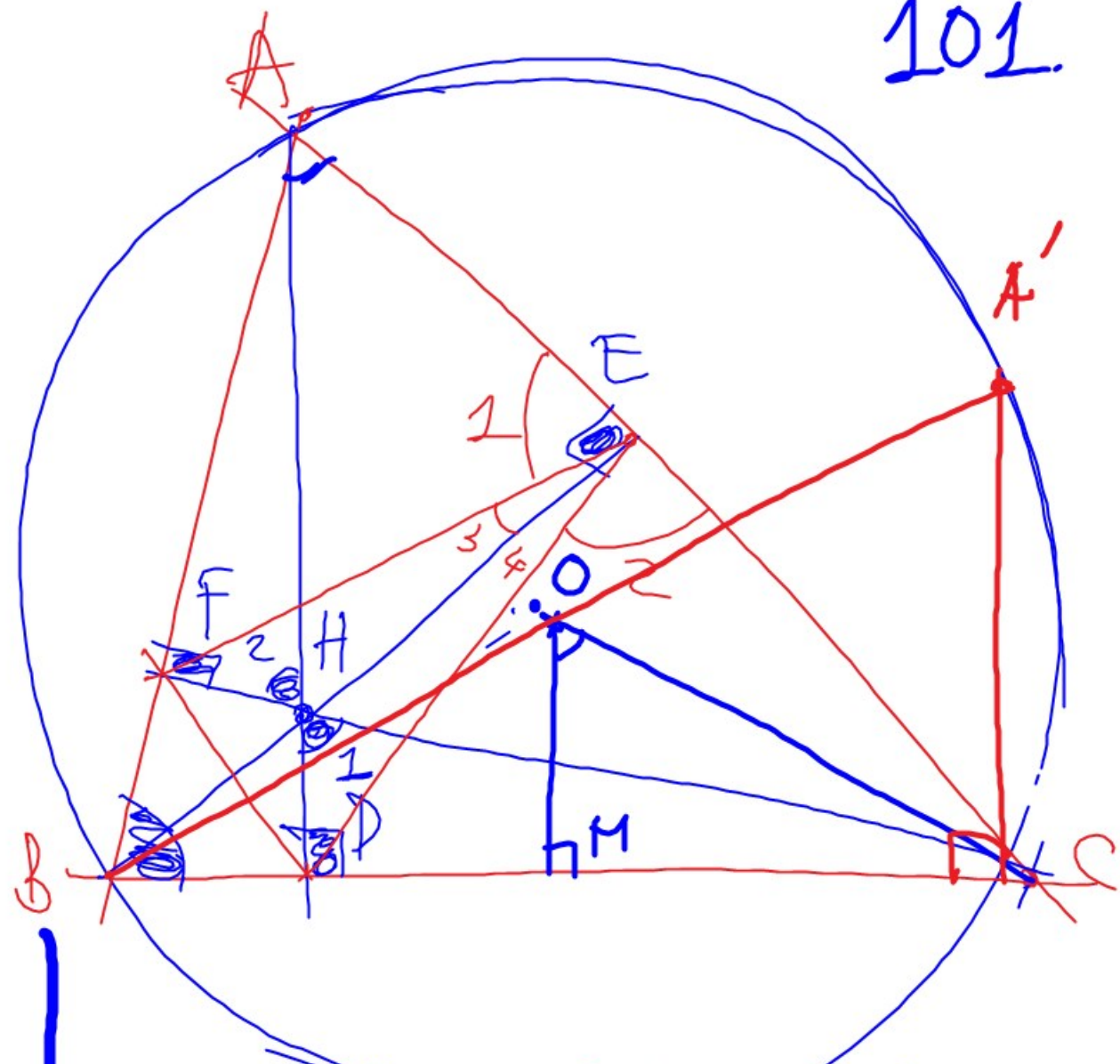
$$\hat{FDE} = 2\hat{FBE} \times$$

$$\cos \hat{A} = \frac{EF}{BC}$$



$$\cos \hat{A} = \frac{EF}{BC}$$

101.

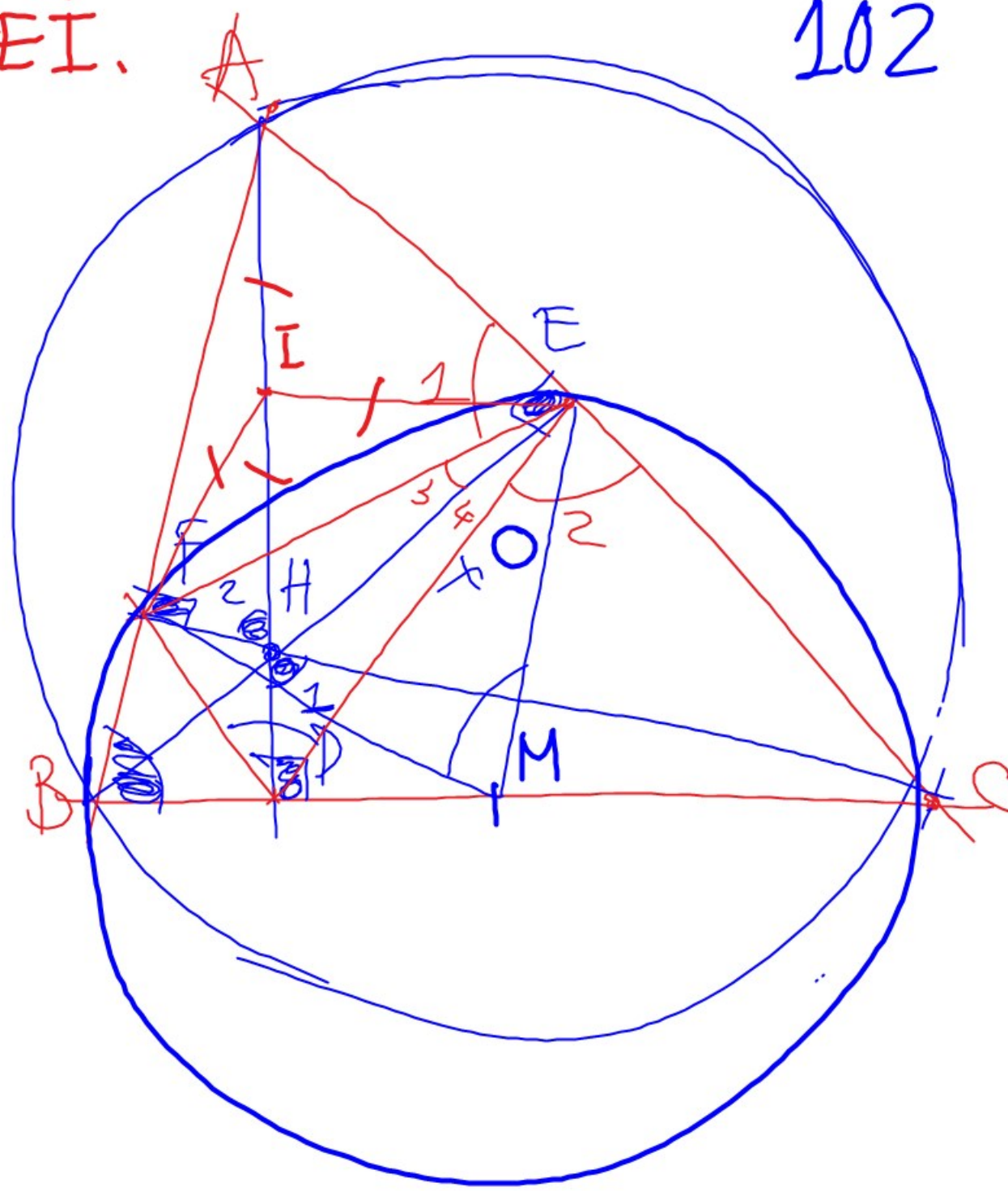


$$\sin \widehat{BAC} = \frac{BC}{2R} = \frac{BC}{2} \cdot R = \sin \widehat{MOC}.$$

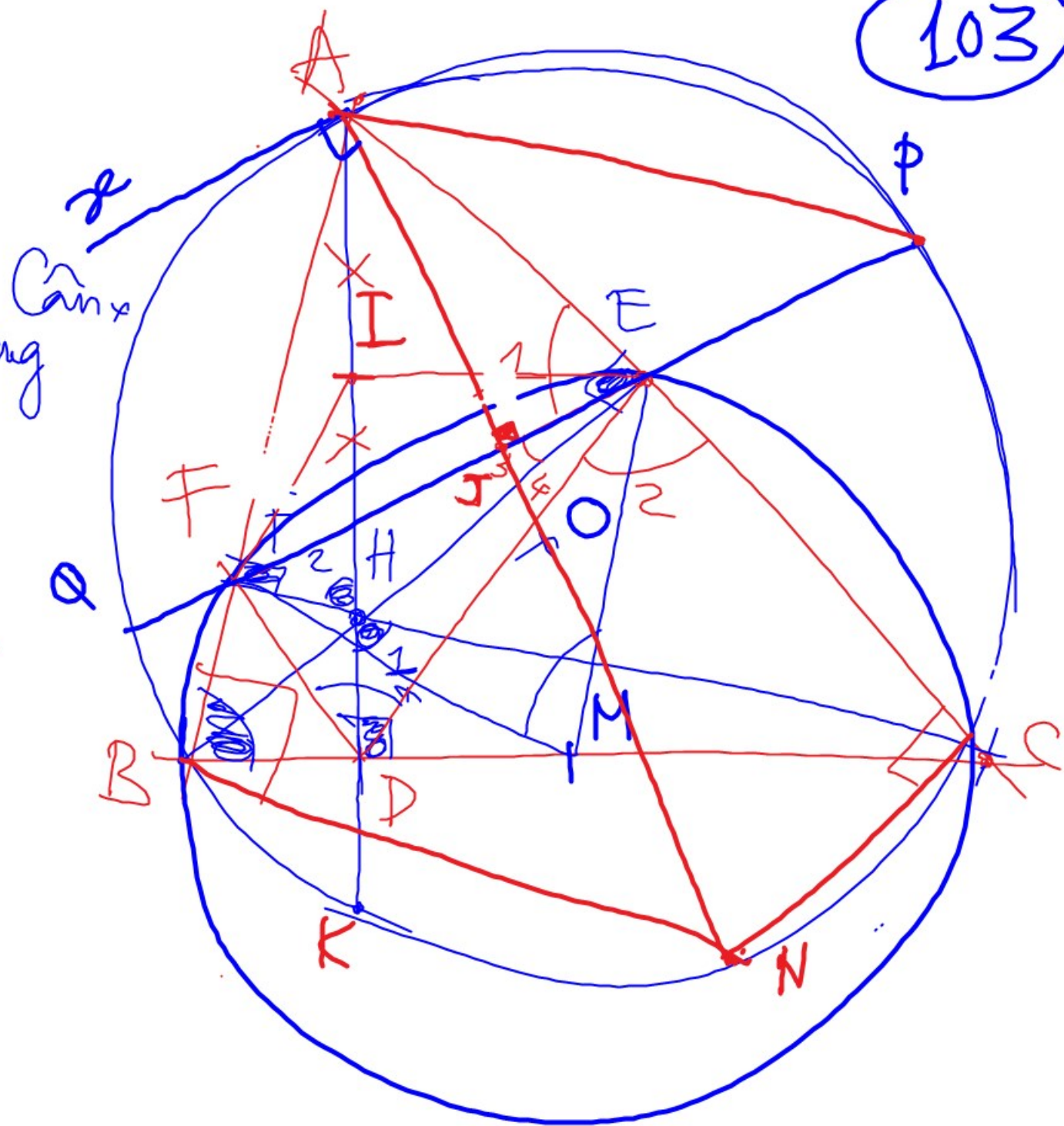


Euler (Ole) /  $\widehat{FDE} = \widehat{PDI} = \widehat{FEI}$ .

102



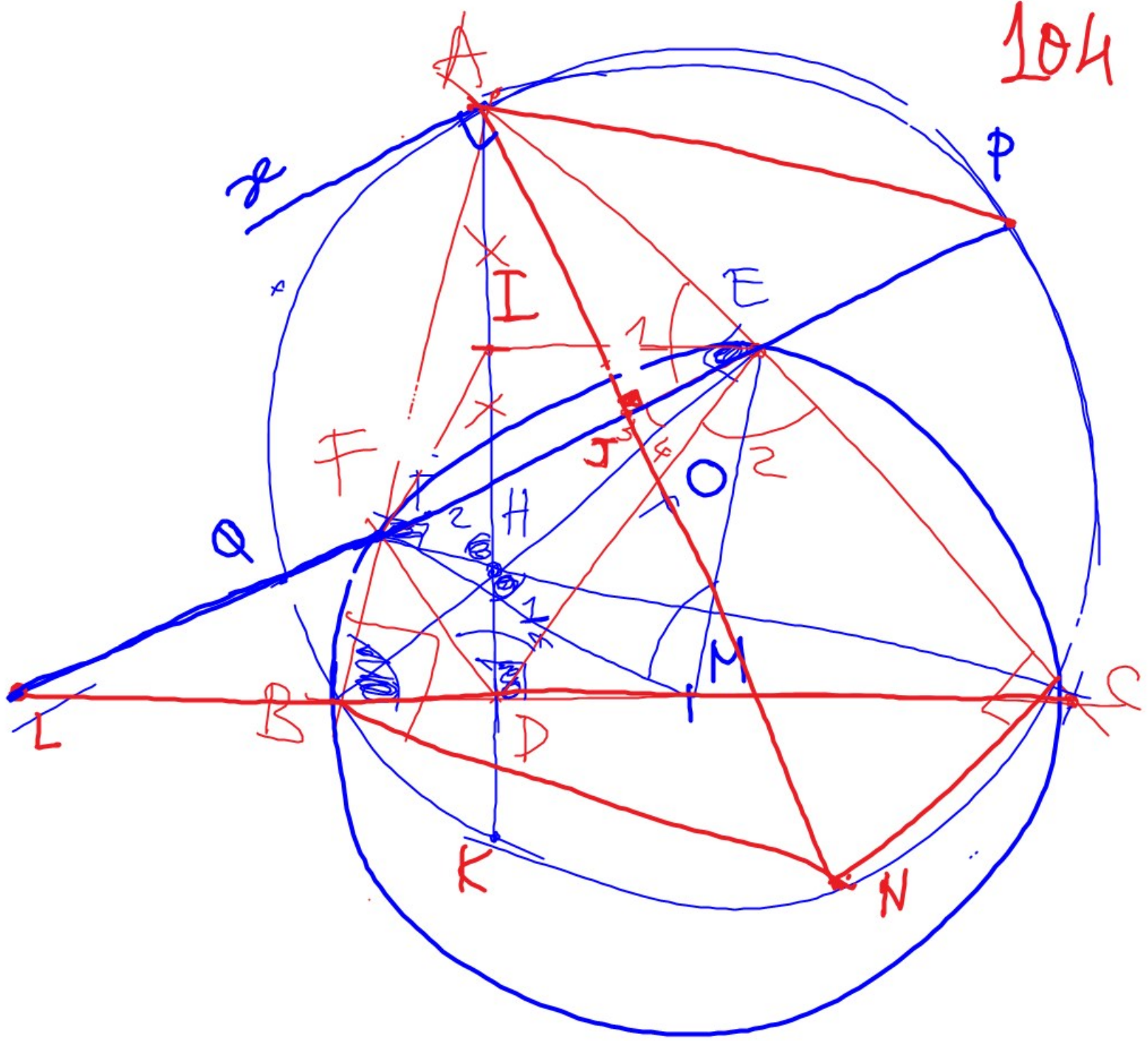
- $HBNC$  là hình bình hành.
- $HD = DK \Rightarrow \triangle HEK$  cân và  $\triangle FHI$ .
- $HE = CK = BN \Rightarrow BKNC$  là hình thang.
- $\triangle vuông ADE \sim \triangle vuông ABN$ .
- $AH^2 + BC^2 = BH^2 + AC^2 = CH^2 + AB^2 = 4R^2$
- $OA \perp EC$  (Ke<sup>2</sup> thêm tiếp tuyến tại A để cm).
- $\Rightarrow AM$  là trung trực  $PQ$ .
- $AP^2 = AE \cdot AC$  và  $BQ^2 = BF \cdot BA$ .
- $\Rightarrow JEEN$  &  $JFBN$  nội tiếp.
- $AH = BC \Rightarrow \widehat{BAC} = 45^\circ$ .



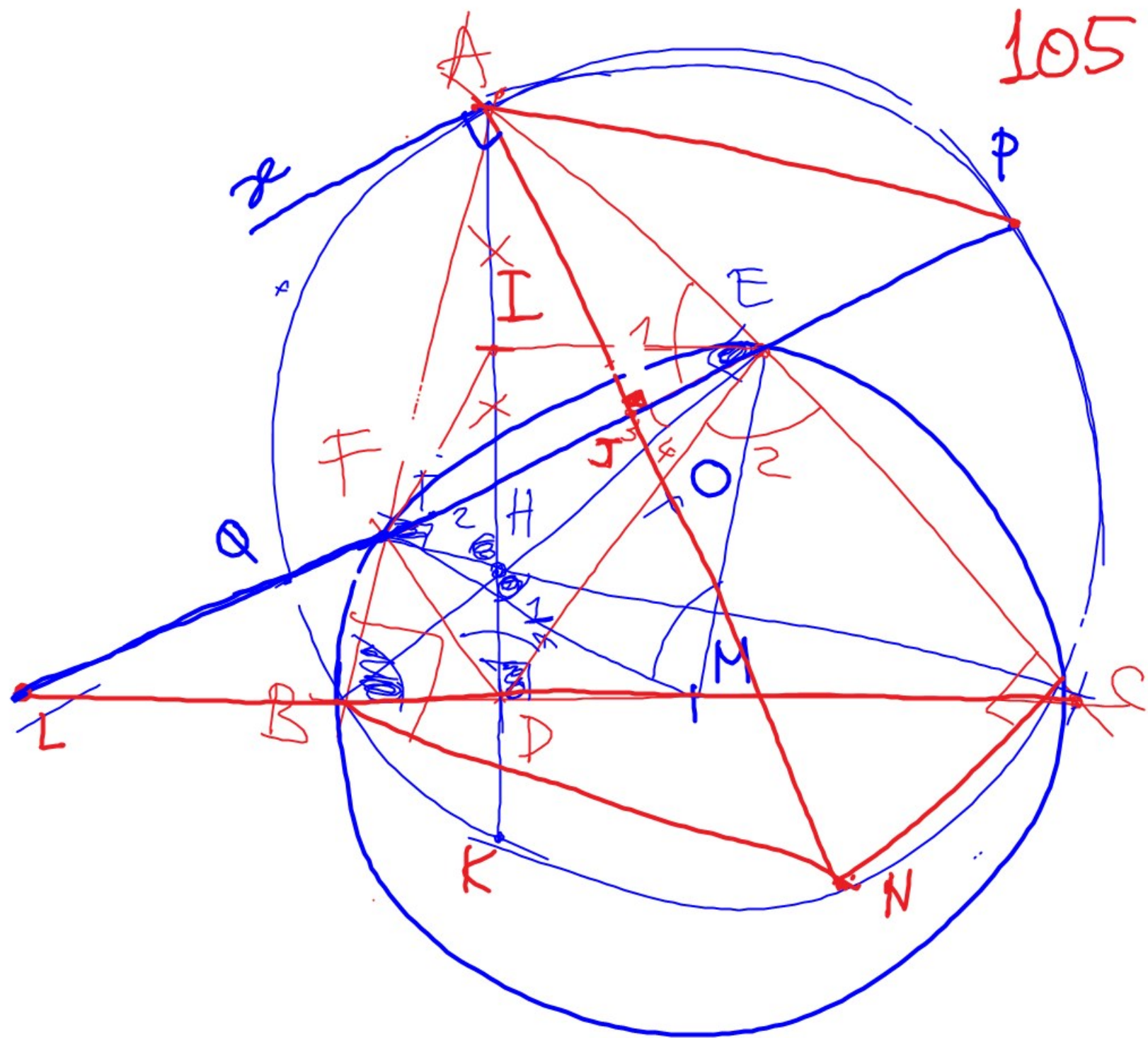


Sim Son

104



Sim Son









$$\left(\frac{1}{3}\right) \begin{matrix} 2 \\ x = 2400\sqrt{3} \end{matrix}$$

$$x = 20\sqrt{6} \cdot \sqrt{3}$$

$$\textcircled{20\sqrt{2}}$$

$$\Rightarrow R = \frac{1}{3}x = 20\sqrt{2}$$

$$2 \cdot 20\sqrt{2} \cdot 10$$

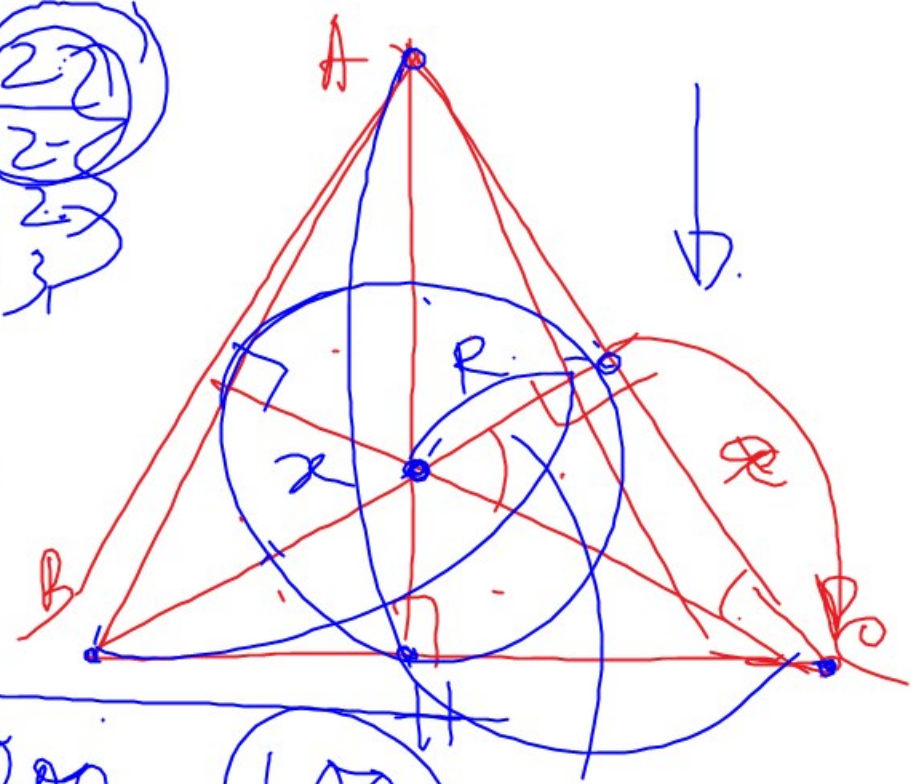
$$x \cdot \frac{x}{\sqrt{3}} = 2400$$

$$x^2 = 2400\sqrt{3}$$

$$x = \frac{1}{3} \cdot 6 \cdot 10^2 \cdot \sqrt{3}$$

$$x = 2 \cdot 10 \cdot \sqrt{6} \cdot \sqrt{\sqrt{3}} = 20\sqrt{6} \cdot \sqrt{\sqrt{3}}$$

$$\begin{matrix} 20 & 20 \\ 12 & 20 \\ 6 & 20 \\ 3 & 20 \end{matrix}$$



$$R \cdot R\sqrt{3} = \frac{1200}{\sqrt{3}} = 400$$

$$R^2 = \frac{400}{\sqrt{3}}$$

$$R = \frac{20}{\sqrt{\sqrt{3}}} = \frac{20 \cdot \sqrt{\sqrt{3}}}{\sqrt{3}} = 20\sqrt{3} \cdot \sqrt{\sqrt{3}}$$

$$\frac{20\sqrt{2} \cdot \sqrt{3} \cdot \sqrt{\sqrt{3}}}{\sqrt{3} \cdot \sqrt{3}}$$



$$\left(\frac{1}{3}\right) \begin{matrix} 2 \\ x = 2400\sqrt{3} \end{matrix}$$

$$x = 20\sqrt{6} \cdot \sqrt{3}$$

$$\textcircled{20\sqrt{2}}$$

$$\Rightarrow R = \frac{1}{3}x = 20\sqrt{2}$$

$$2, 20\sqrt{2} \cdot 10,$$

$$x \cdot \frac{x}{\sqrt{3}} = 2400$$

$$x^2 = 2400\sqrt{3}$$

$$x = \frac{1}{3} \cdot 6 \cdot 10^2 \cdot \sqrt{3}$$

$$x = 2 \cdot 10 \cdot \sqrt{6} \cdot \sqrt{3} = 20\sqrt{6} \cdot \sqrt{3}$$

$$R \cdot R\sqrt{3} = \frac{1200}{\sqrt{3}} = 400$$

$$R^2 = \frac{400}{\sqrt{3}}$$

$$2000 \frac{\sqrt{3}}{3}$$

$$20\sqrt{2} \cdot \sqrt{3} \cdot \sqrt{3}$$

$$\sqrt{3} \cdot \sqrt{3}$$

$$\begin{matrix} 20 & 20 \\ 12 & 20 \\ 6 & 20 \\ 3 & 20 \end{matrix}$$

