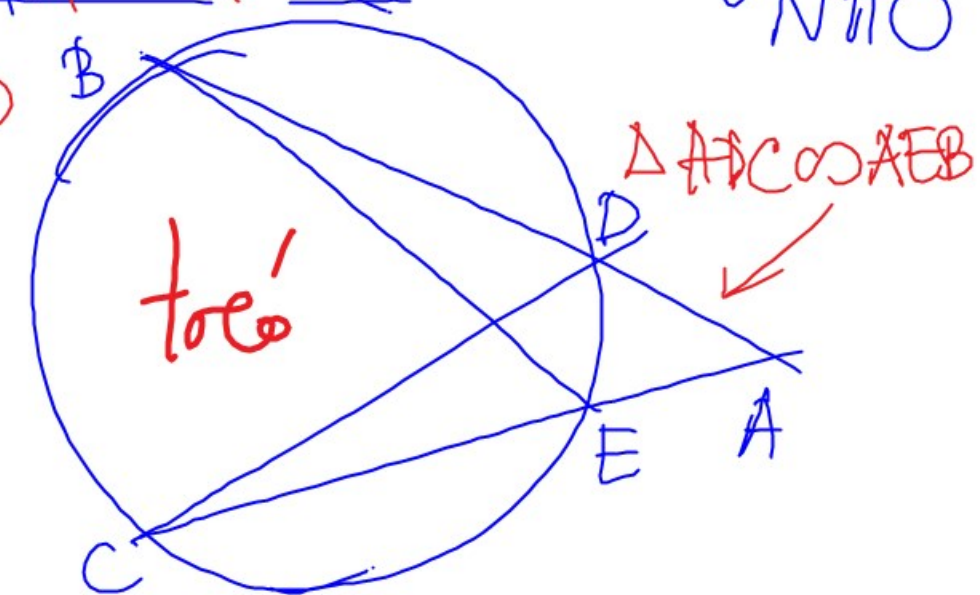
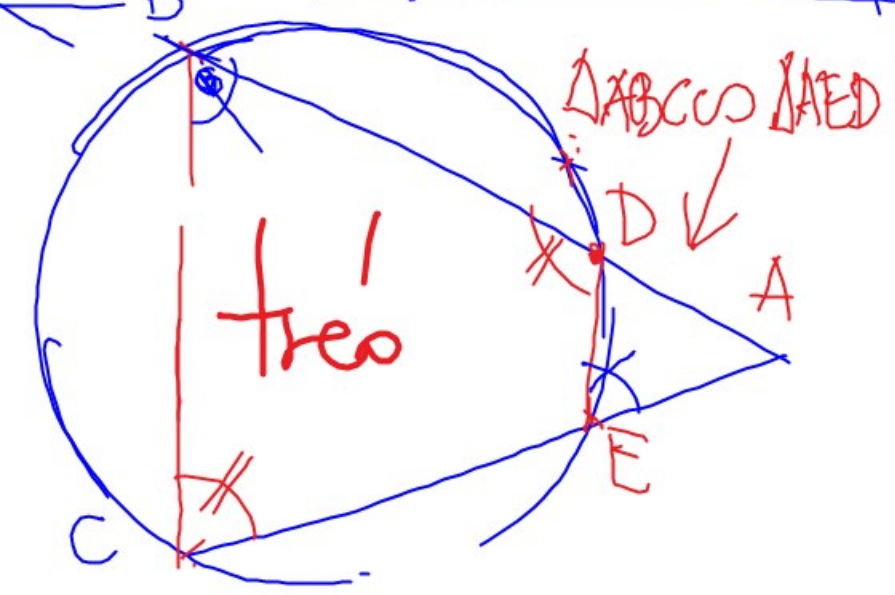
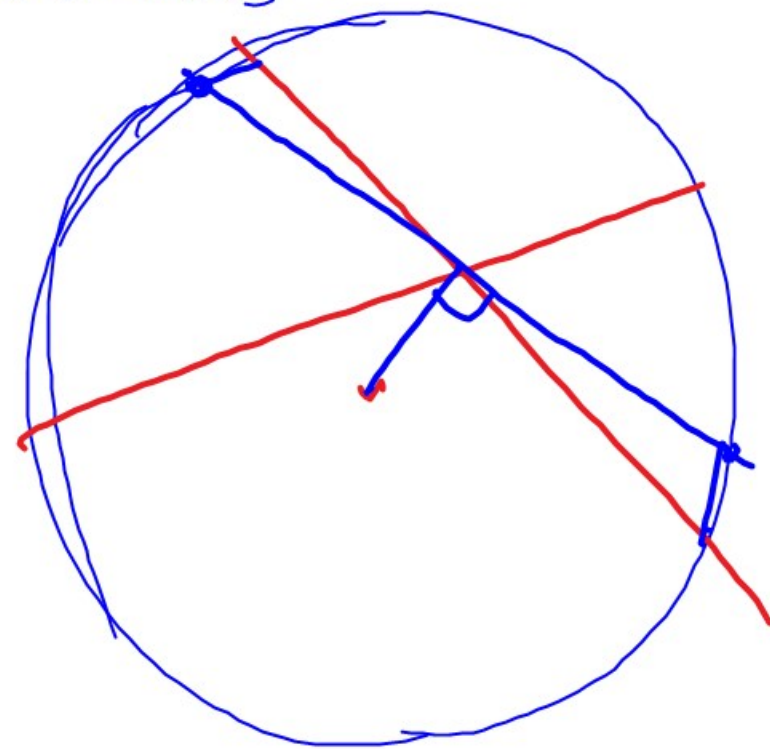
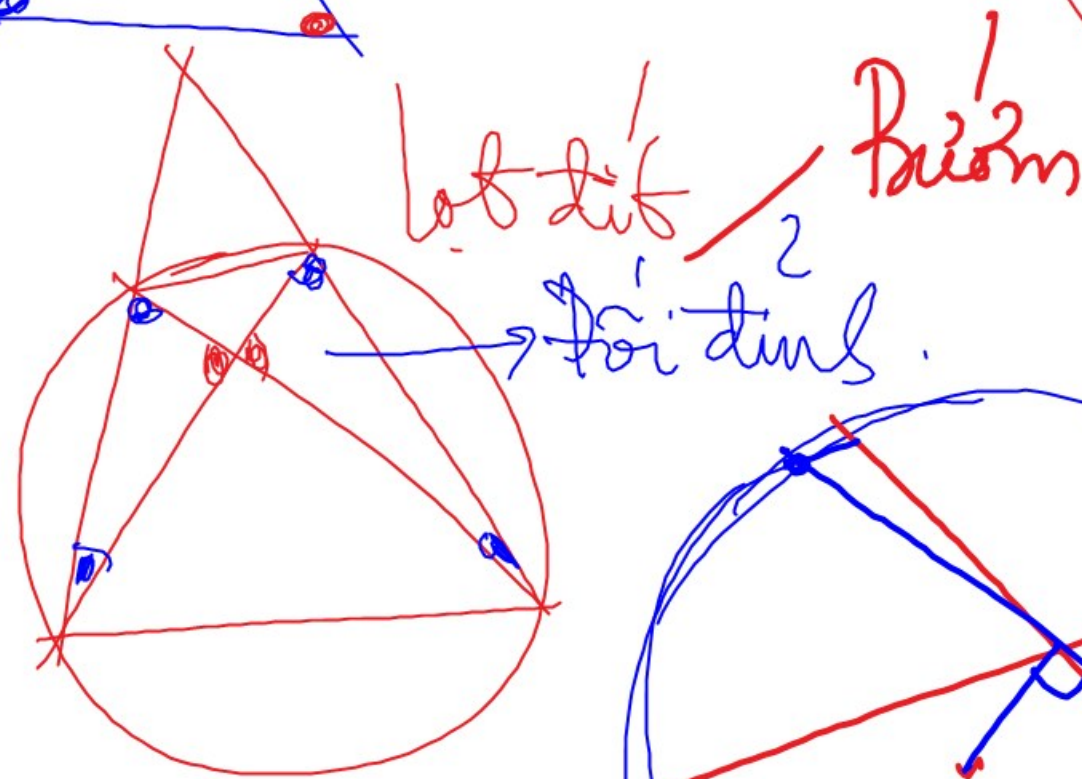
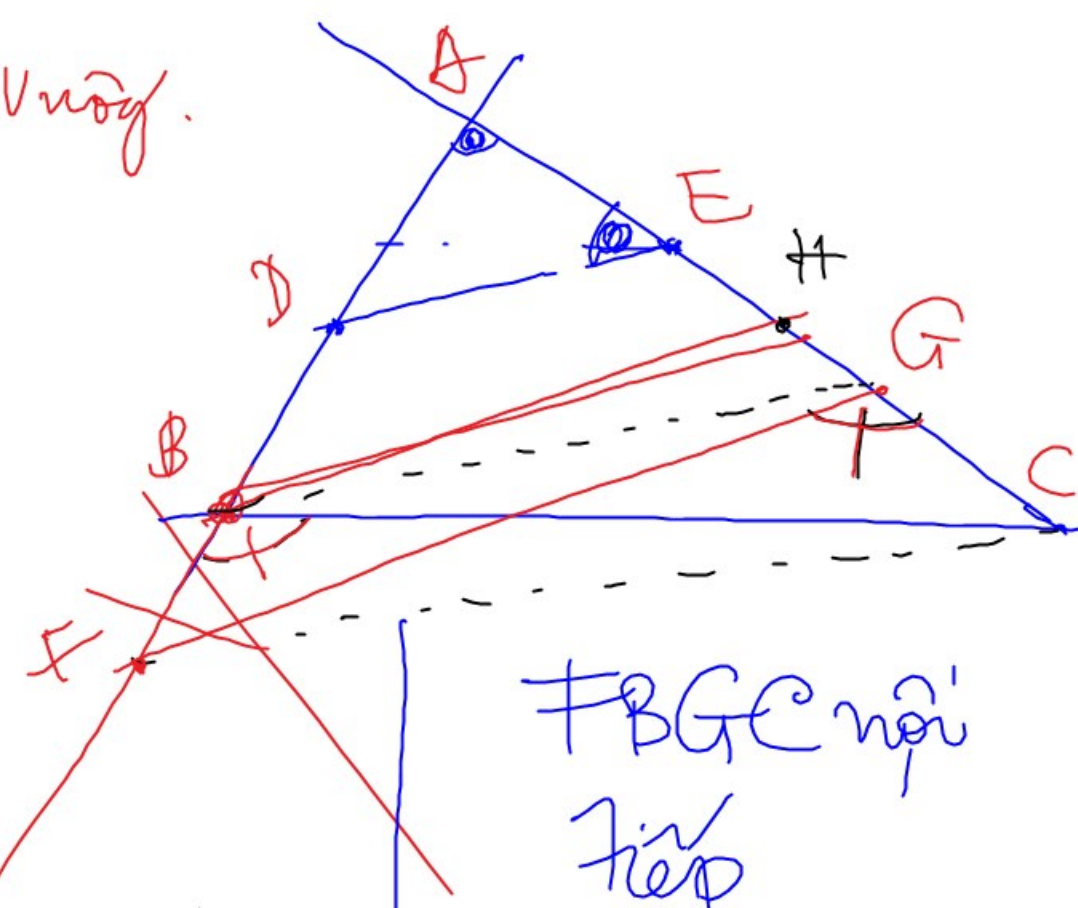
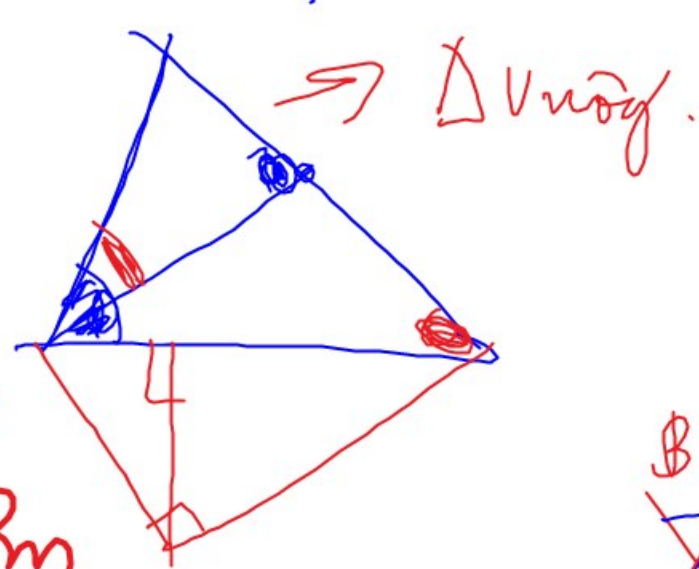
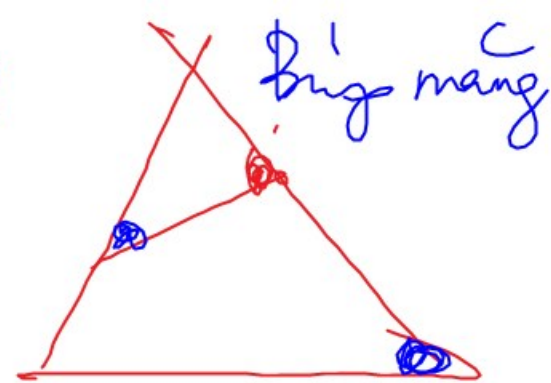
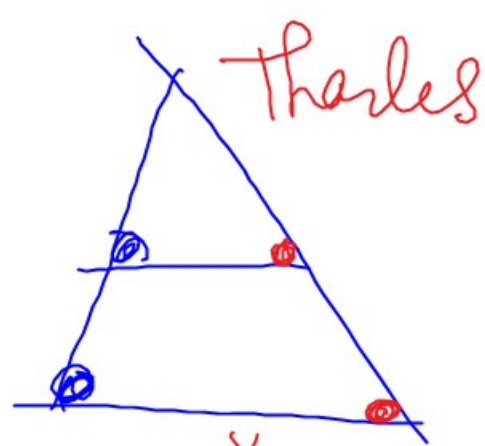


$AC^2 = CD \cdot CB$

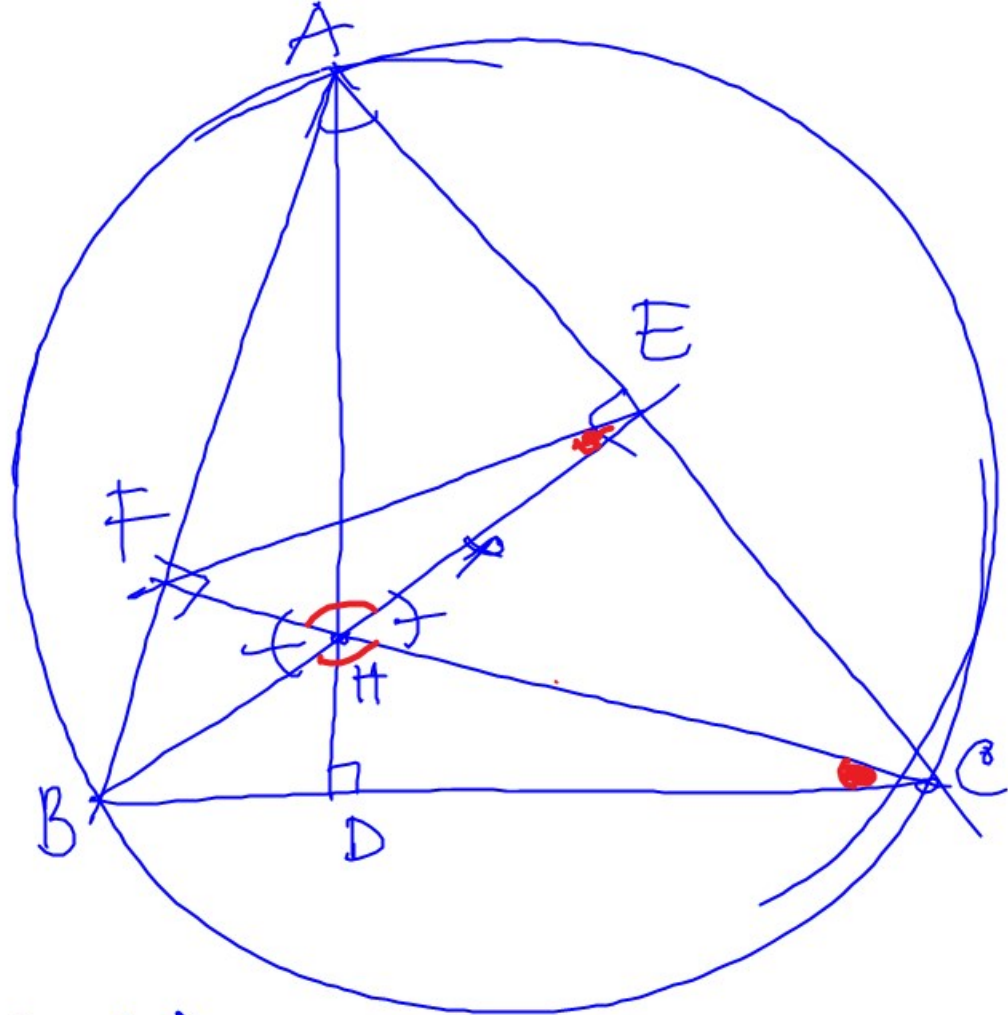
Cung góc như LON





$$\frac{AG}{AF} = \frac{AB}{AC}$$

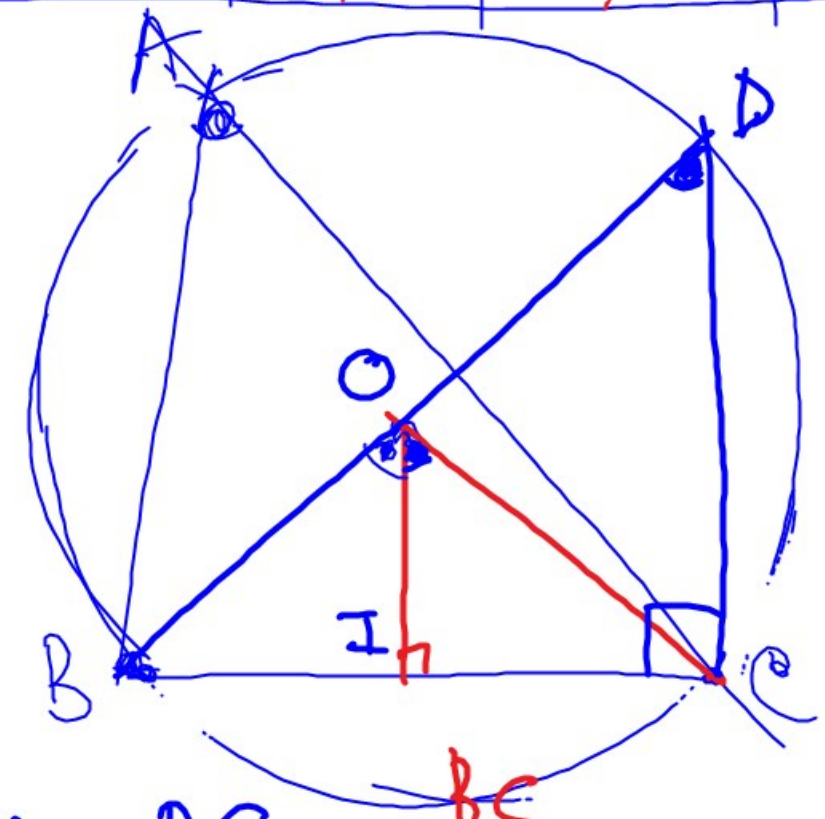
$$\frac{\Delta AGB \sim \Delta AFE}{\Delta AGF \sim \Delta ABC}$$



$$\cos(A) = \frac{HE}{AE} = \frac{EF}{BC} \quad (\triangle FHE \sim \triangle BHE)$$

$$\widehat{BAE} + \widehat{BHE} = 180^\circ$$

Độ dài cạnh BC:	R	$R\sqrt{2}$	$R\sqrt{3}$
$\angle BOC$	60°	90°	120°
$\angle A$	30°	45°	60°



$$\sin(A) = \frac{BC}{2R} = \frac{\frac{BC}{2}}{R}$$

- $\triangle BDF \sim \triangle EDE \rightarrow BD \cdot DE = DF \cdot DE$ (Bảng 1)
- $\triangle BDA \sim \triangle HDE \rightarrow BD \cdot DE = DH \cdot DA$ (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 đối
đỉnh là tia phân giác

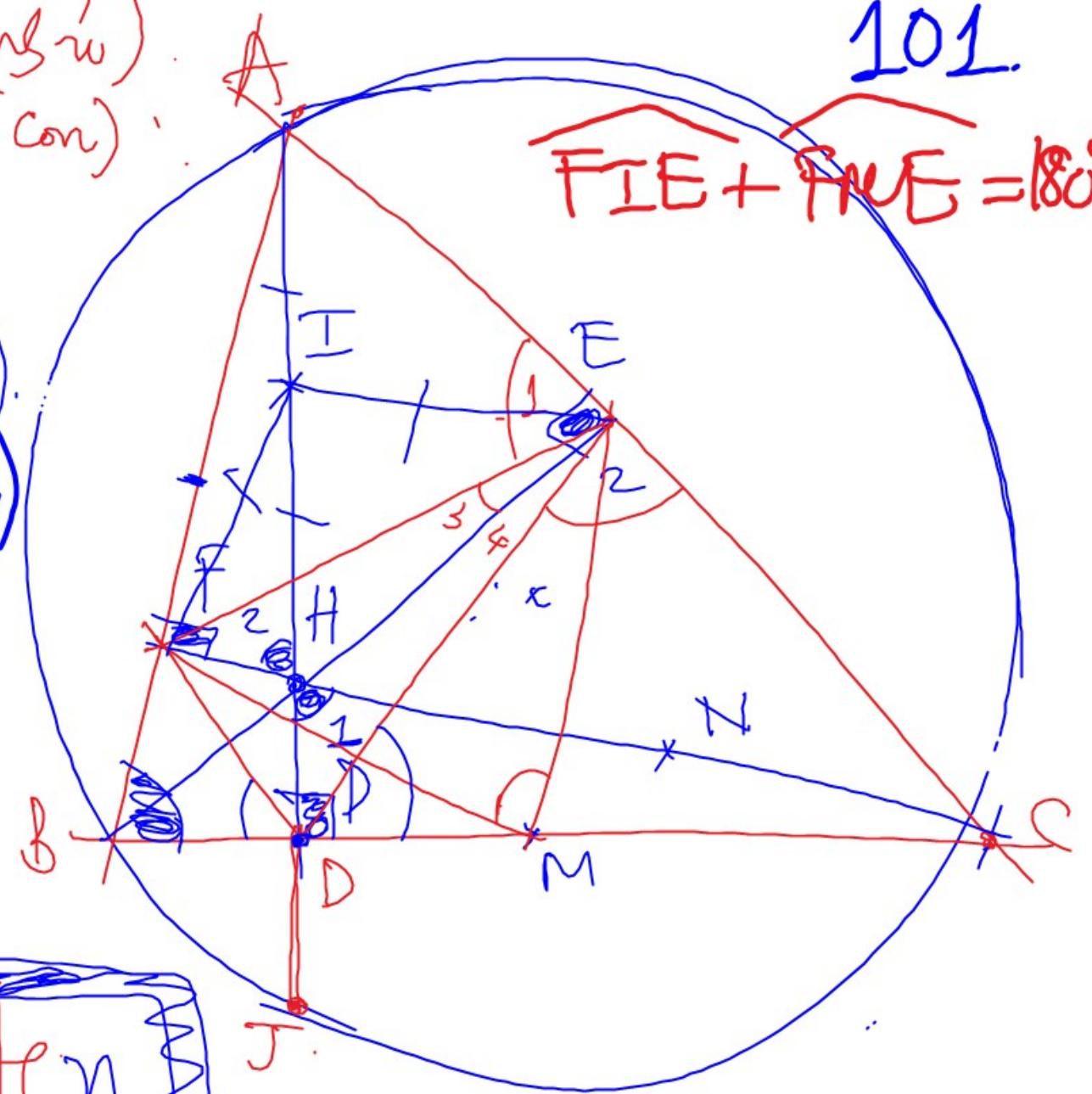
• $\hat{FDE} = 2\hat{FBE} = \hat{FME}$

• $\cos \hat{A} = \frac{EF}{BC}$

• $\angle MDE, \angle MFE$
vì tiếp x

Key
Word

Paralle



$AF \cdot AB = AE \cdot AC = AH \cdot AD$
 $FEND$ nội tiếp x

$$x \cdot y \quad AF, AB = AH, AD = AE, AC \cdot x$$

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

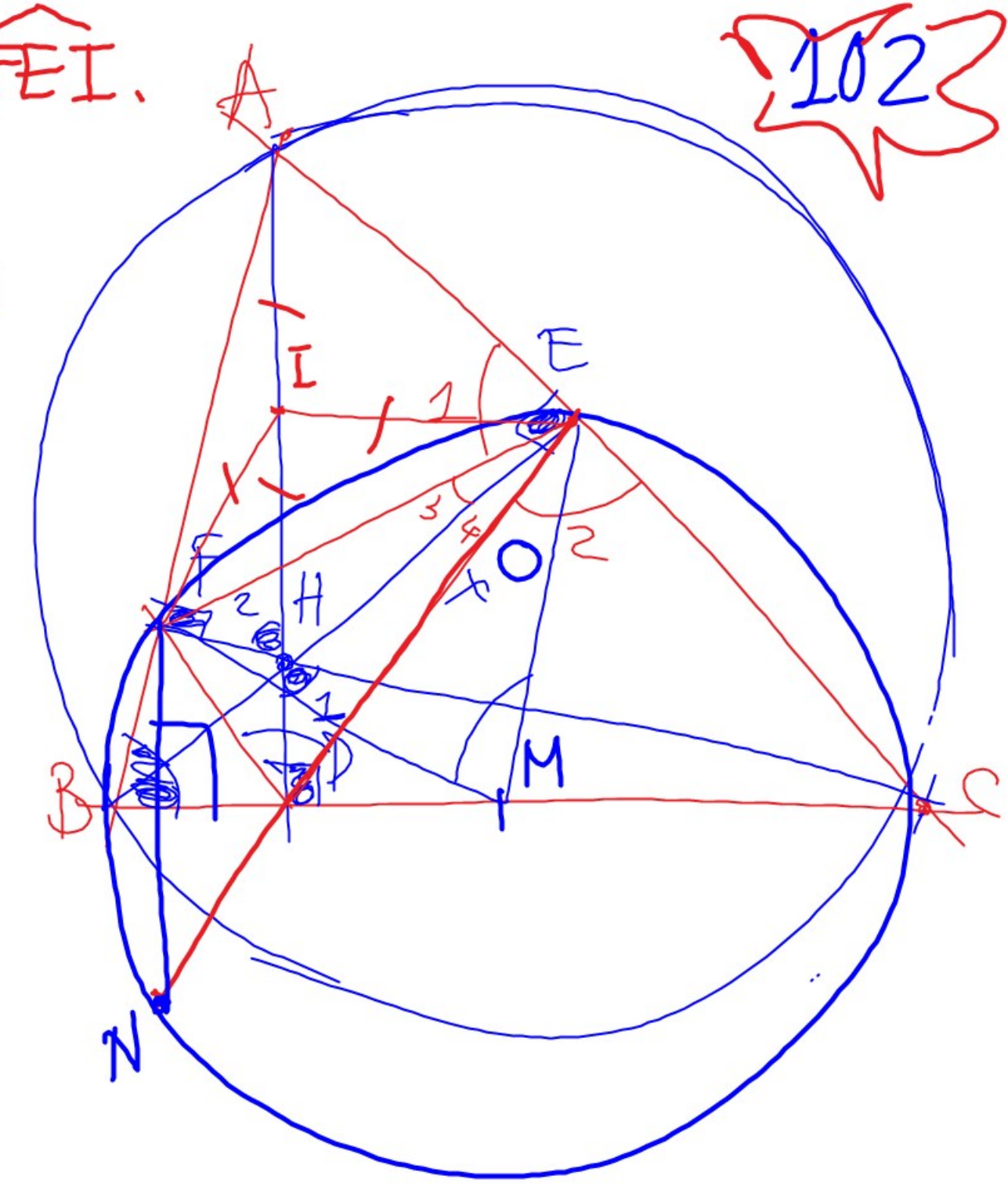
$$At = BC \Rightarrow \widehat{BAC} = 45^\circ$$

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

1023

$\bullet FN \perp AB$.

\bullet P/M TRONG TÂM $\triangle ABC$

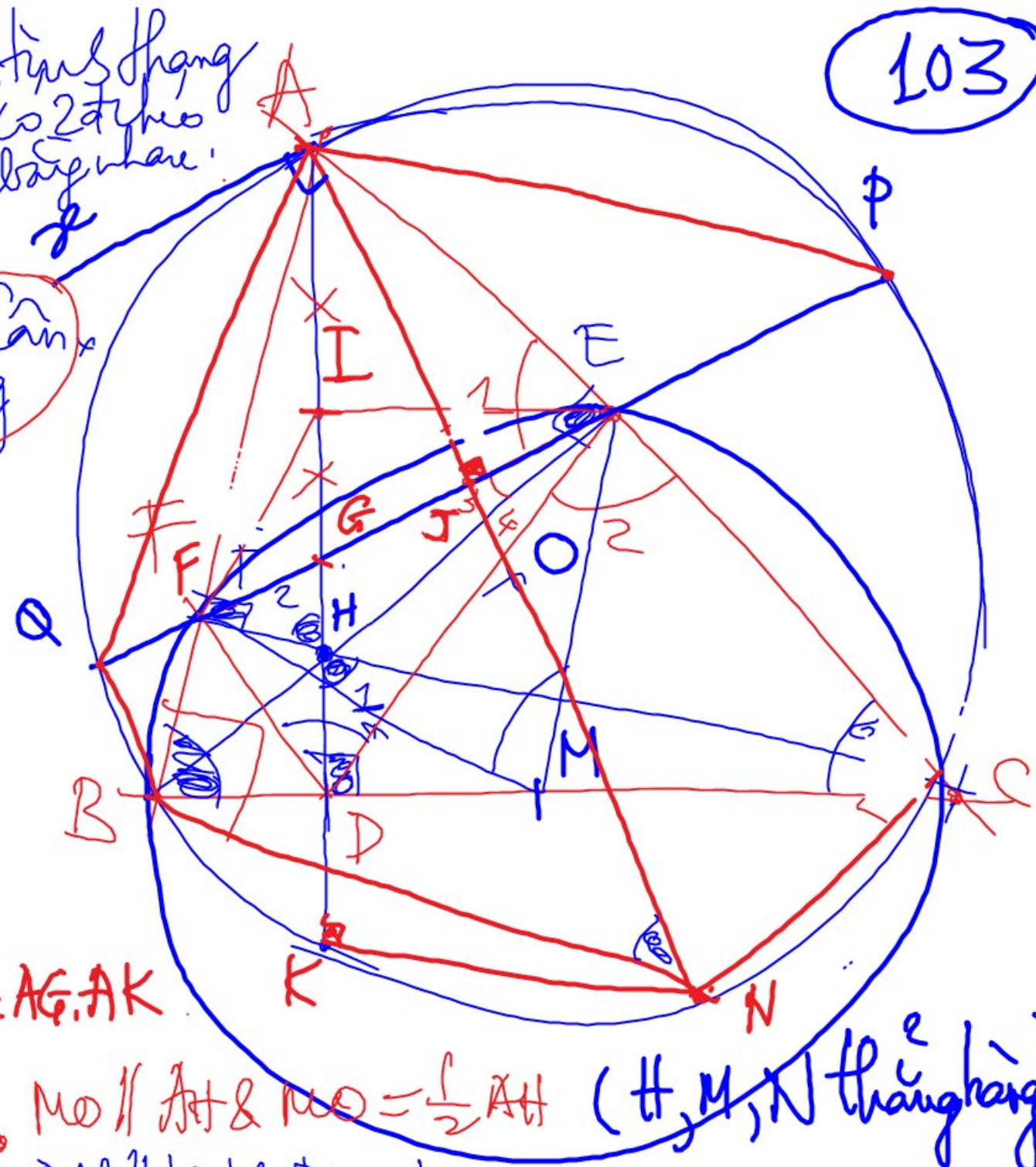


ΔN_{HON}

→ Lösungsteil HK

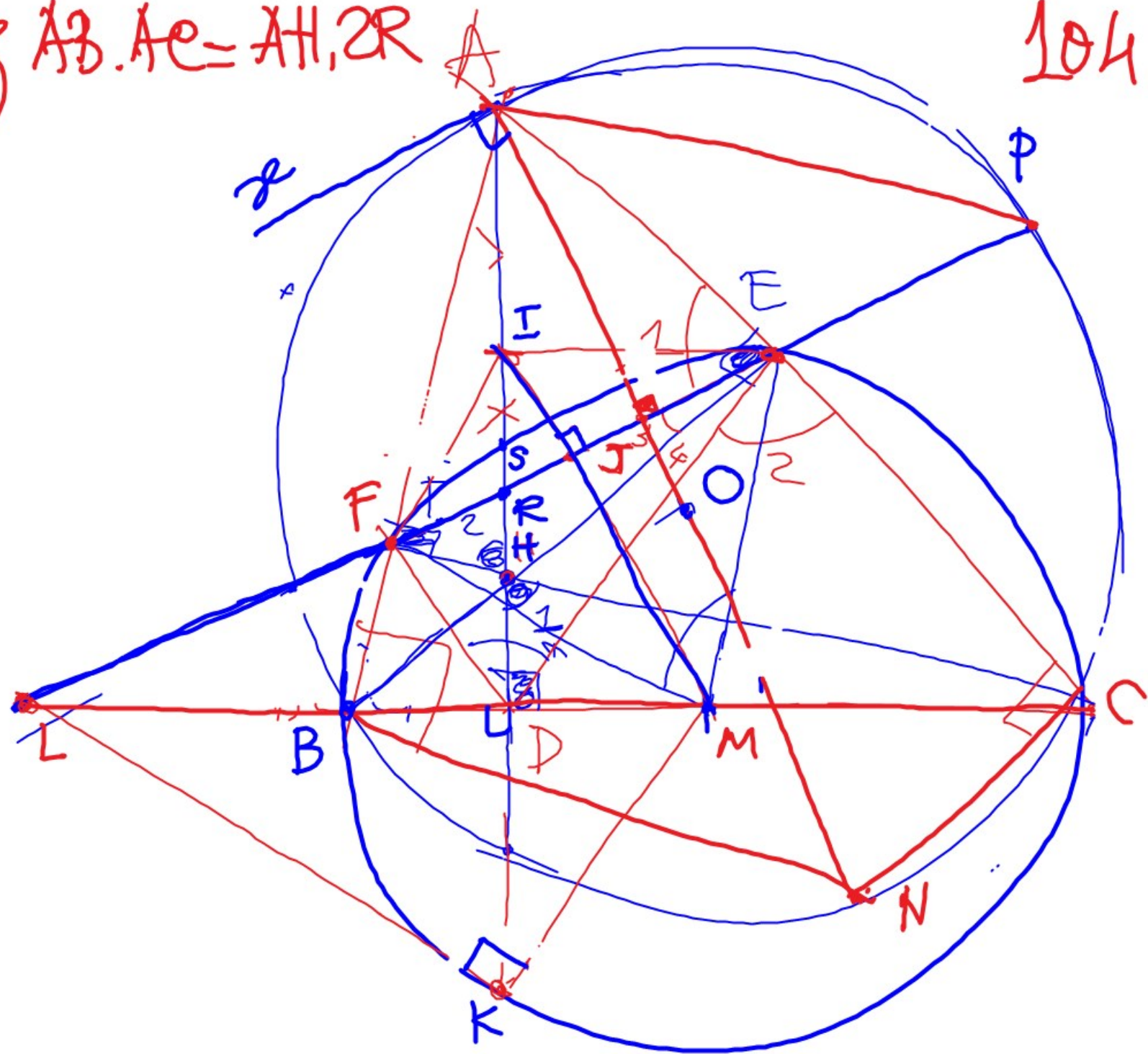
Hình ảnh
No 2 ở khu
banyan.

- HBNC là hình bình hành.
- HD = DK \Rightarrow $\triangle HEK$ cân và có $\angle EKH$.
- HE = EK = BN \Rightarrow BKNC là hình thang cân.
- $\triangle vuông ADE$ có $\triangle vuông ABN$.
- $AH^2 + BC^2 = BH^2 + AC^2 = CH^2 + AB^2 = 4R^2$
- OA \perp EC (Kẻ \perp thêm tiếp tuyến tại E để cân).
- $\Rightarrow AN$ là trung trực PQ.
- $AP^2 = AE \cdot AC$ và $BQ^2 = BF \cdot BA$.
- $\Rightarrow JEEN$ & JFBN nội tiếp & KGTN
- $AF \cdot AB = AH \cdot AD = AE \cdot AC = AJ \cdot AN = AG \cdot AI$
- $AB \cdot AC = AD \cdot 2R$
- $AD^2 + DE^2 + DH^2 + DB^2 = 4R^2$



- $M_O // AH \& M_O = \frac{1}{2} AH$ (H, M, N thẳng hàng).
 $DM // KN \& DM = \frac{1}{2} KN$

104

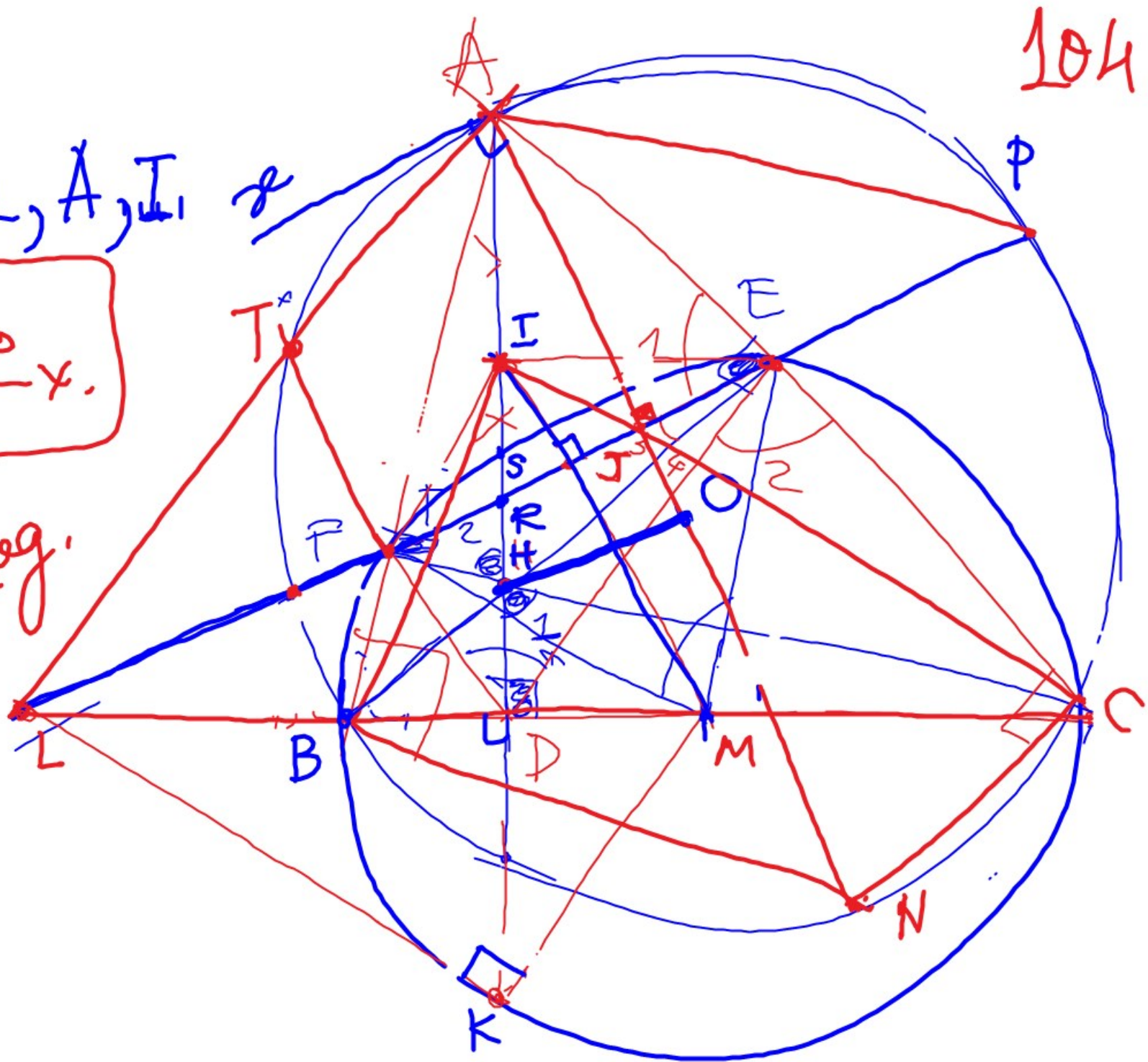


Sin Són / $S_{ABC} = \frac{AB \cdot AC \cdot BC}{4R}$

Cát tuyến đồng quy & Tr L, A, I &

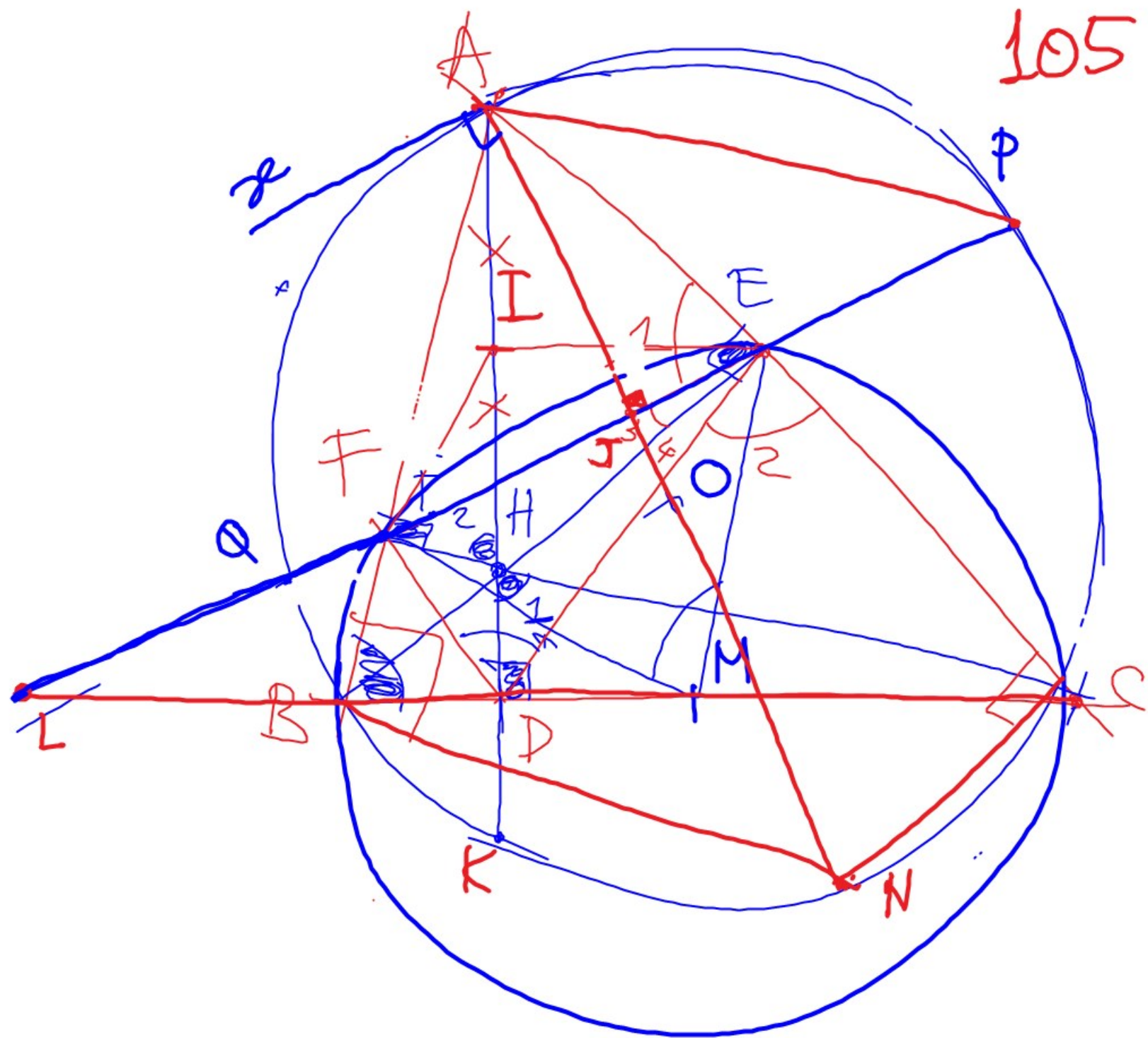
R hướng tâm ΔBIC_x .

LBC cát tuyến chung.
A, T, F, E, H \in
đồng trục x.



104

Sim Son



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

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

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

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

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

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

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

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

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

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

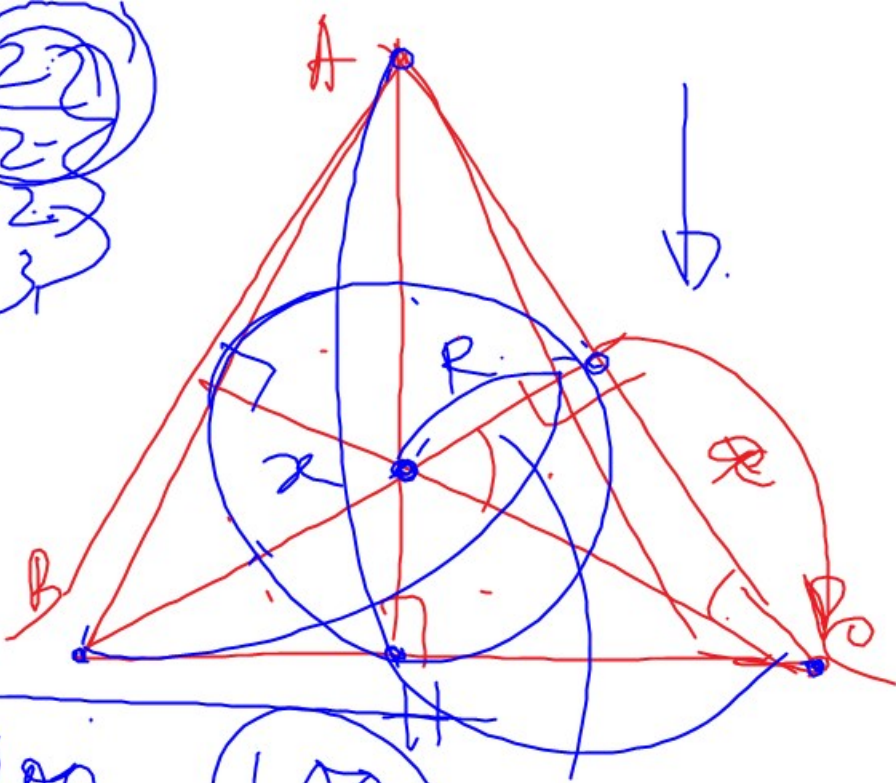
$$R^2 = \frac{400}{\sqrt{3}}$$

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

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

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

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



105 TBM Giác Cụt dần: