

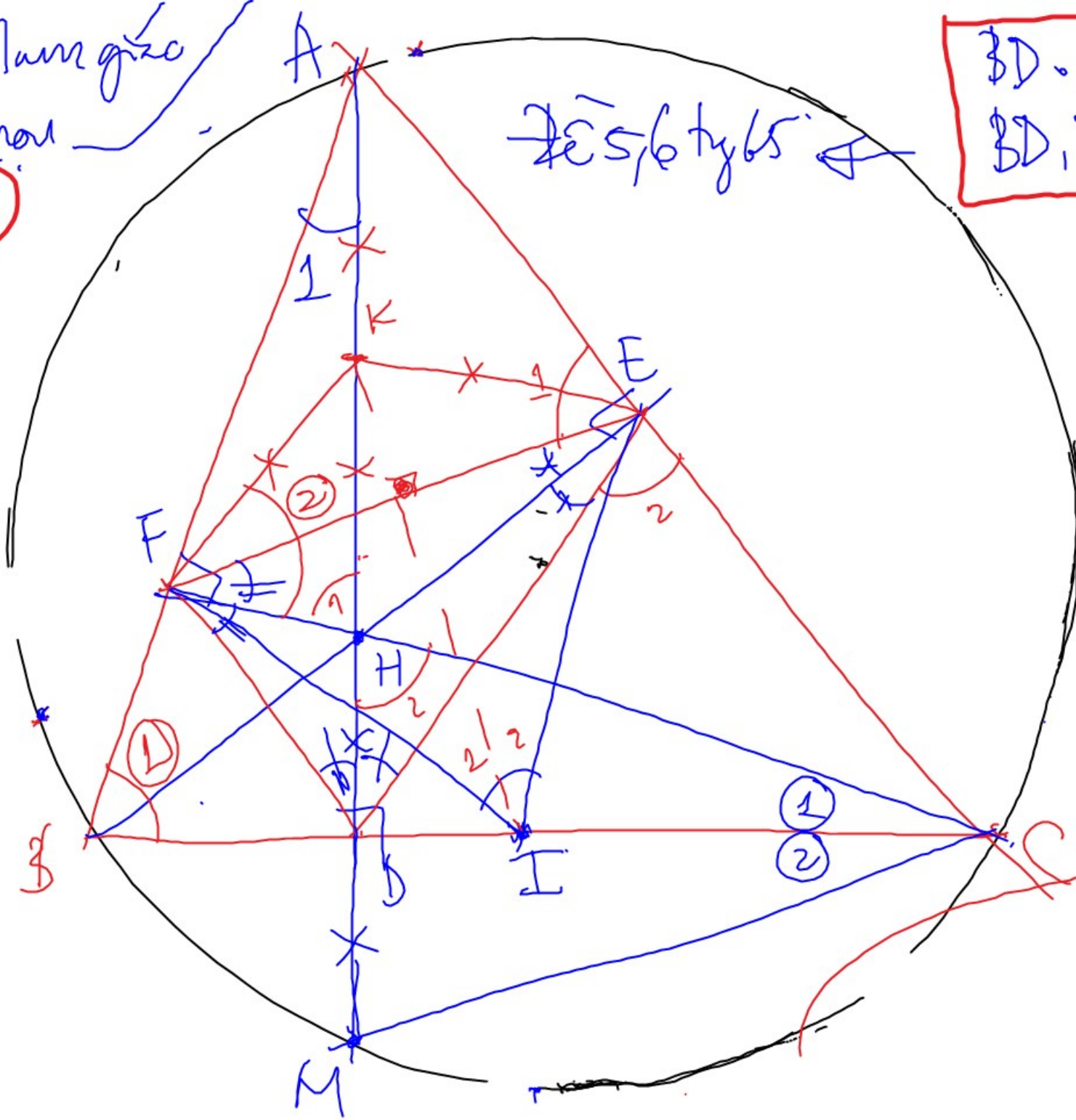
- a) 7 đường tròn ngoại tiếp + 6 trục giao nội tiếp
- b) 12 trục giao đồng dạng: 3 cặp x 4 cái
- c) $\widehat{B} = \widehat{H_1} = \widehat{H_2} = \widehat{E_1} = \widehat{E_2} = \widehat{F_2}$ $\widehat{B_1}$
- d) $\widehat{FIE} = \widehat{FDE} = 2 \times (4 \text{ góc nhỏ})$
- e) K, E, F nội tiếp (7 góc bằng $\widehat{B_1}$)
- f) K, E, I, F nội tiếp \Rightarrow K, E, I, F nội tiếp x.
- Đường tròn đường kính IK.
- g) $BD \cdot DC = DH \cdot DA$ (hệ thức lượng tam giác vuông)
- h) $\widehat{FKH} = \widehat{HCK}$ (do $\widehat{A_1} = \widehat{C_1} = \widehat{C_2}$)
- i) $BD \cdot DC = DF \cdot DE$

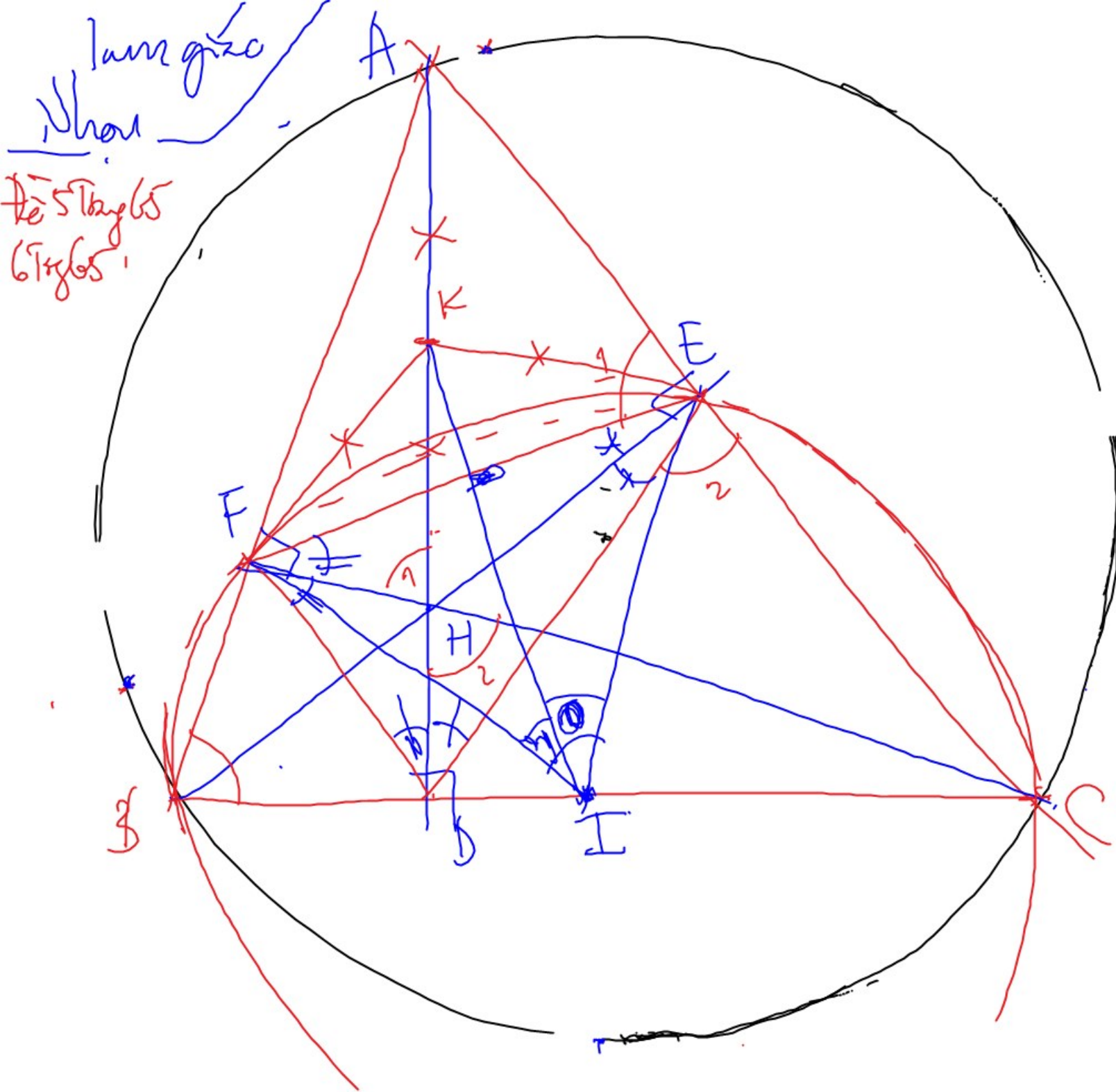
lưu ý
 Nhau
 (2)

25,6 ty 65

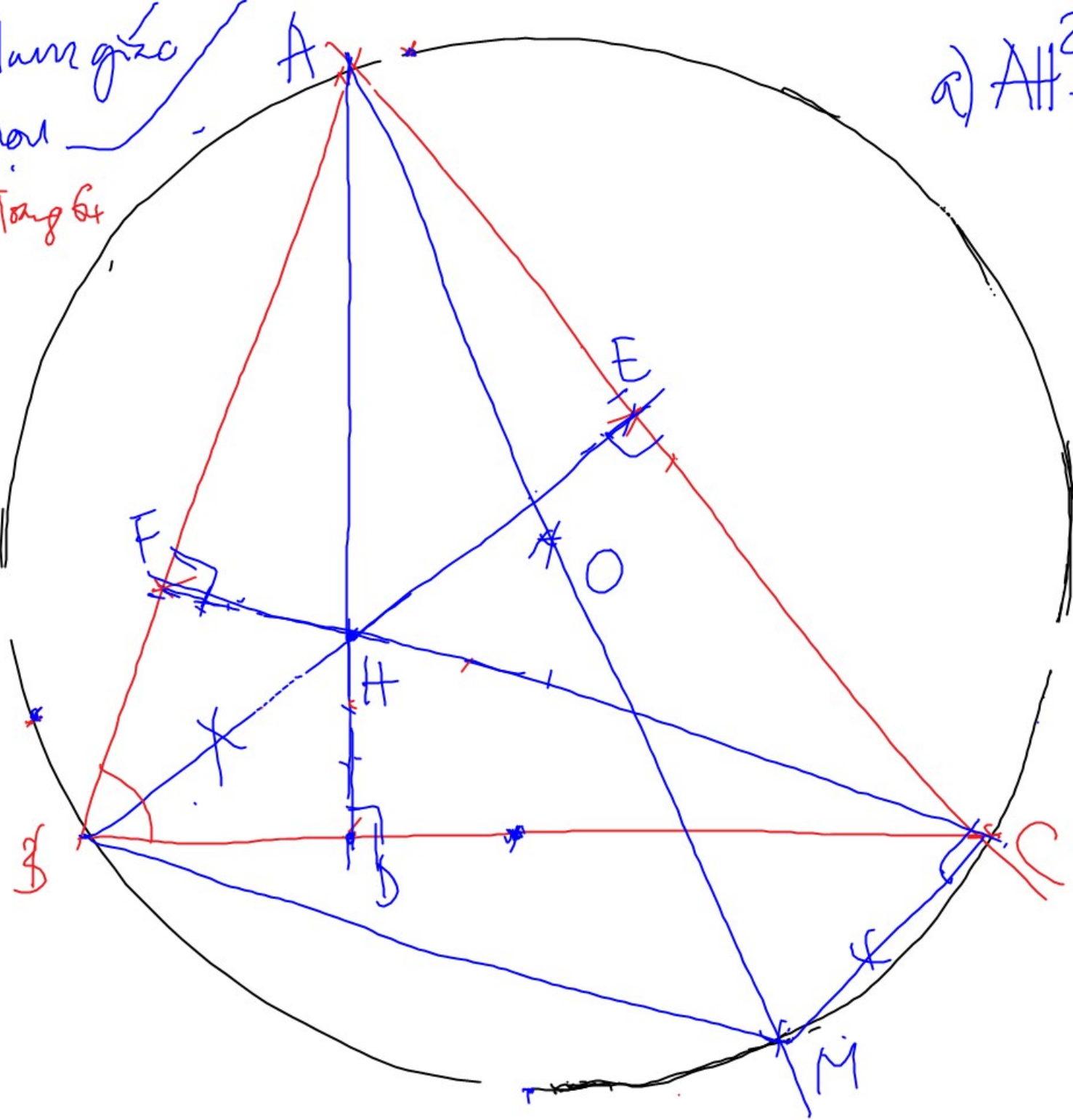
$$\left. \begin{aligned} BD \cdot DC &= DH \cdot DA \\ BD \cdot DC &= DF \cdot DE \end{aligned} \right\}$$

$$\left. \begin{aligned} DH \cdot DA &= \\ DF \cdot DE & \end{aligned} \right\}$$

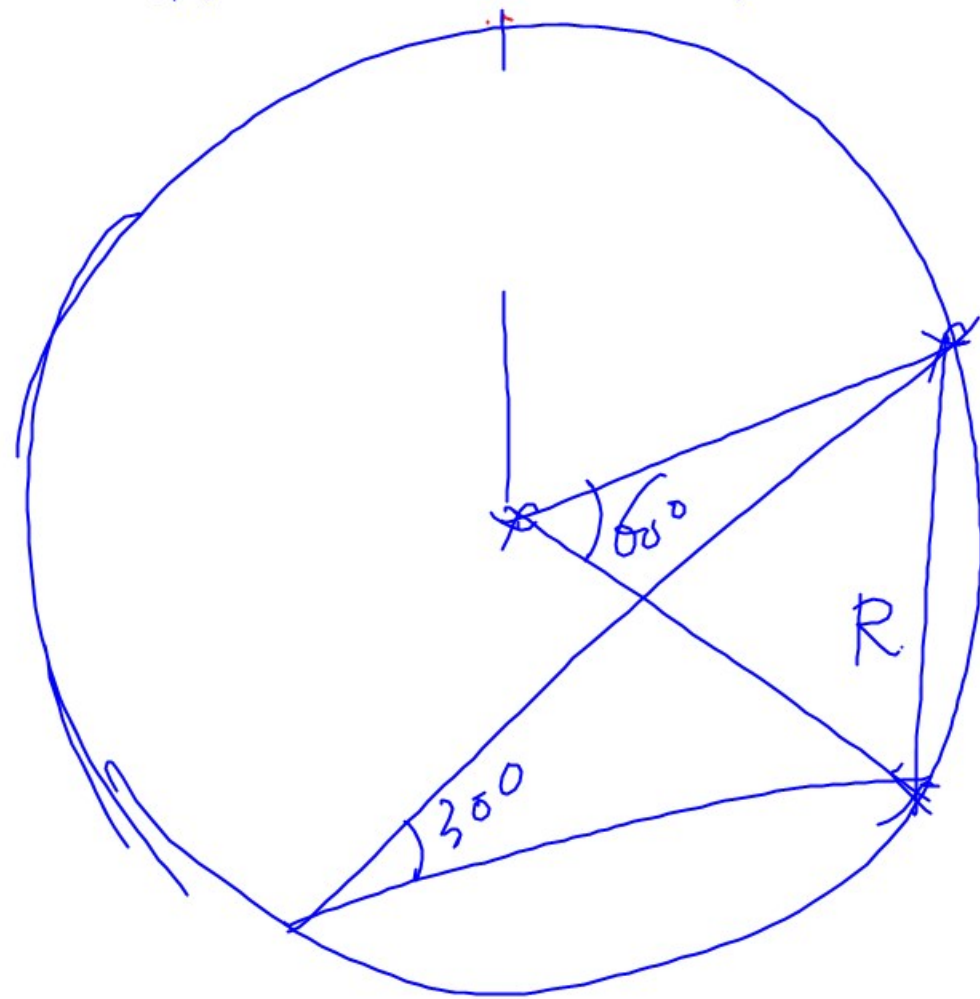


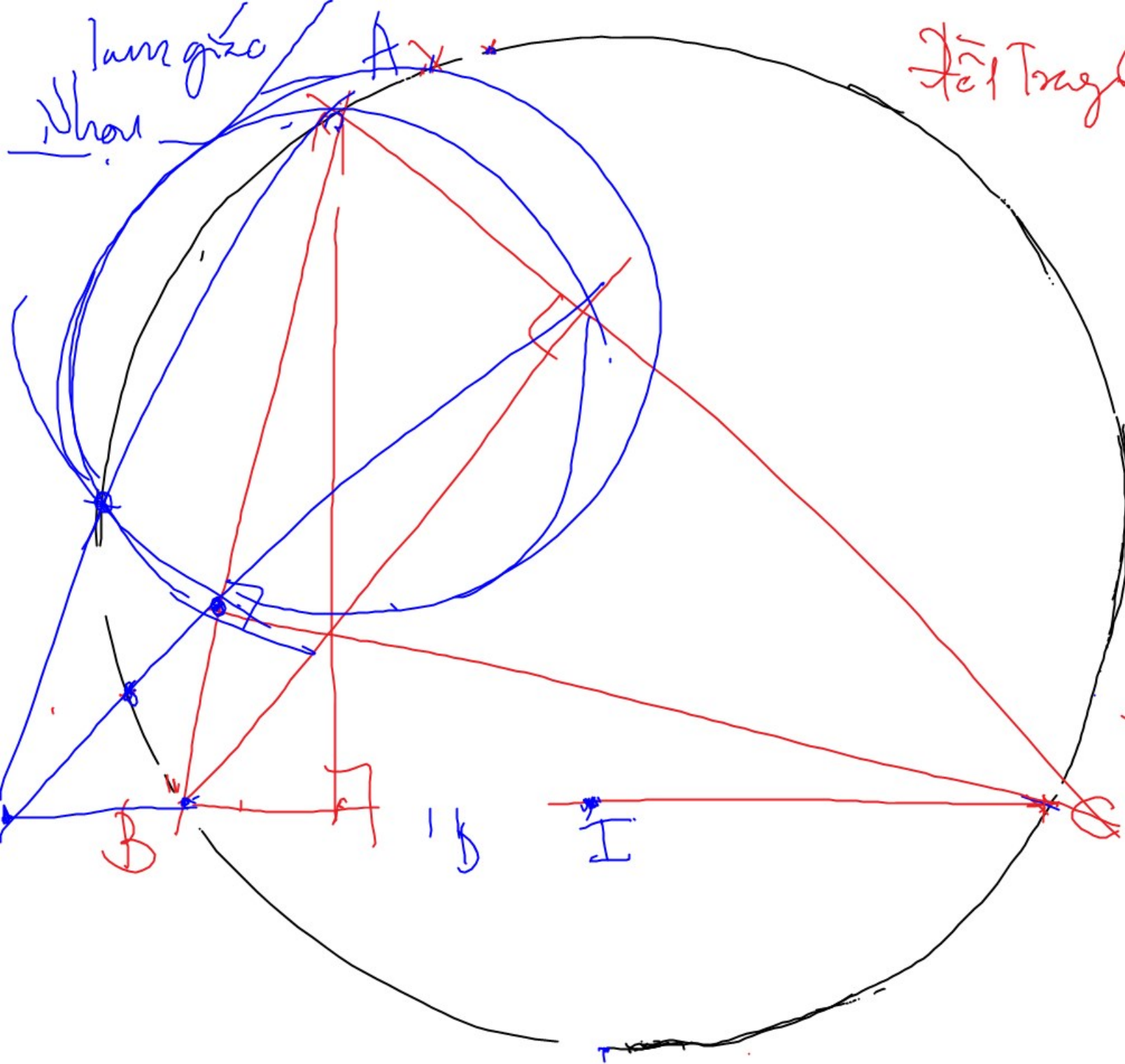


lưu ý
Như
Đề 4. Trang 64



$$a) AH^2 + BC^2 = BH^2 + AC^2 = CH^2 + AB^2 = 4R^2$$

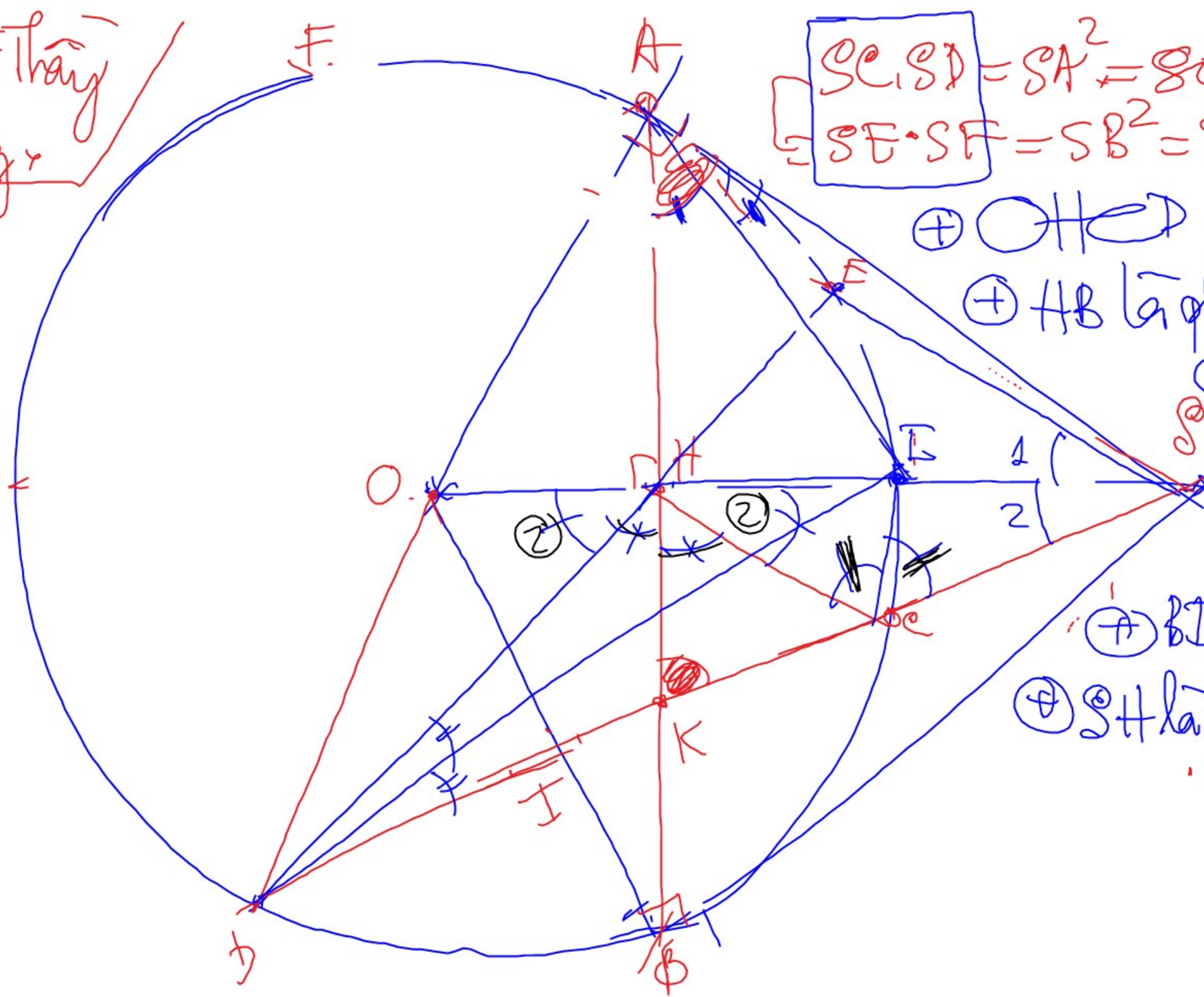




Gradient của các
hệ thống x

ĐỒNG QUY.

Đề Thày
Sang &



$$\left[\begin{array}{l} SC \cdot SD = SA^2 = SO^2 - R^2(A^2) \\ SE \cdot SF = SB^2 = SO^2 - R^2(B^2) \end{array} \right. \left. \begin{array}{l} \text{Thuisge-} \\ \text{trik.} \end{array} \right\}$$

$\oplus \bigcirc \parallel \bigcirc \rightarrow$ nối tiếp

⊕ HB là phân giải DHE

① ② I l'apprendimento

⊕ DI la ggrà CDE

⑦ $AI \xrightarrow{H^+} SAH$

⊕ BT là phần mềm

④ Schlagzeile SE.

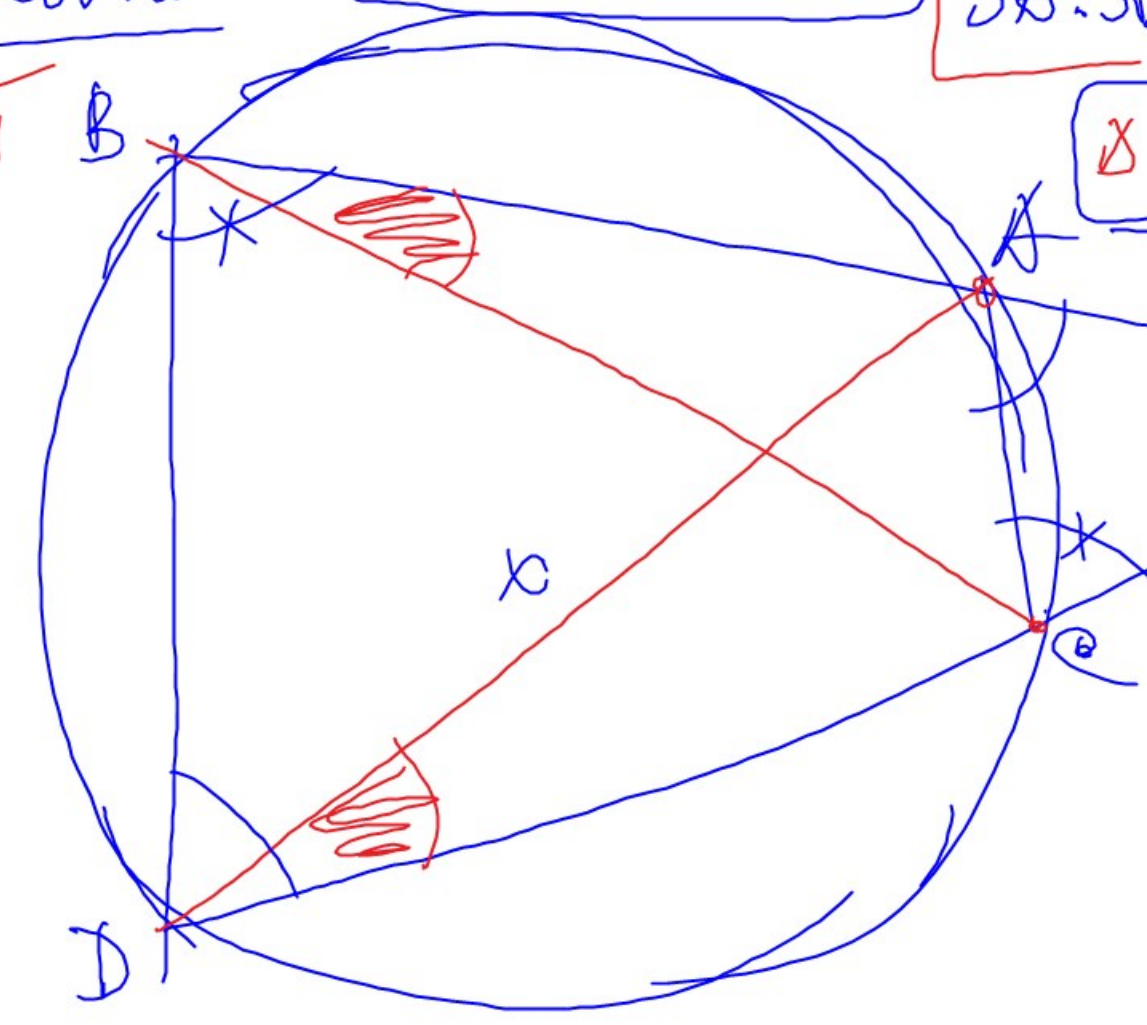
Cho ΔSPC nội tiếp

Bán kính R

$\Delta SPC \sim \Delta SDB$

$SA \cdot SB = SC \cdot SD$ (PT)

$\Delta SAD \sim \Delta SCB$



Điểm S

ABDC nội tiếp

57

S chứng
 $SA \cdot SB = SC \cdot SD$

$\frac{SA}{SD} = \frac{SC}{SB}$

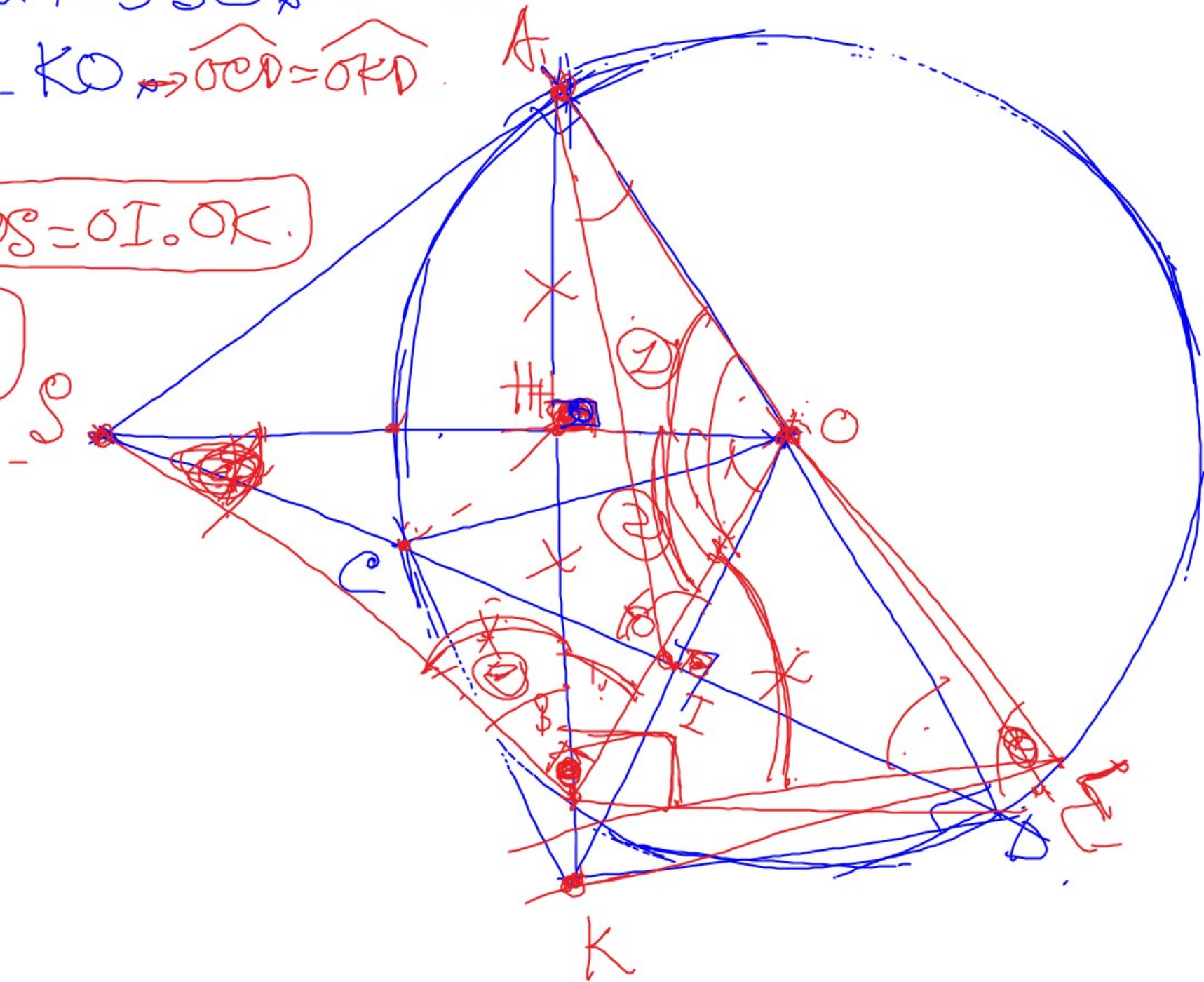
① SABI nối tiếp đtms & kính SO $\Rightarrow \widehat{ABO} = \widehat{ASO}$

② $\text{OHC} \equiv \text{CH} \xrightarrow{\text{KO}} \text{O} \equiv \text{C} \equiv \text{C} \equiv \text{O} \rightarrow \text{O} \equiv \text{C} \equiv \text{C} \equiv \text{O}$

③ ABK hàng ² hàng

④ $\triangle SHIK$ nội tiếp $\Rightarrow OH \cdot OS = OI \cdot OK$.

$$f_A^2 = 0H \cdot 0S = 0I \cdot 0K$$



① SAOB I nội tiếp đ tròn đ kính SO $\Rightarrow \widehat{ABO} = \widehat{ASO}$

$$SA^2 = SI^2 - SC^2$$

② OHOK

KO $\Rightarrow \widehat{OCD} = \widehat{OKD}$

③ AB, K hằng hằng

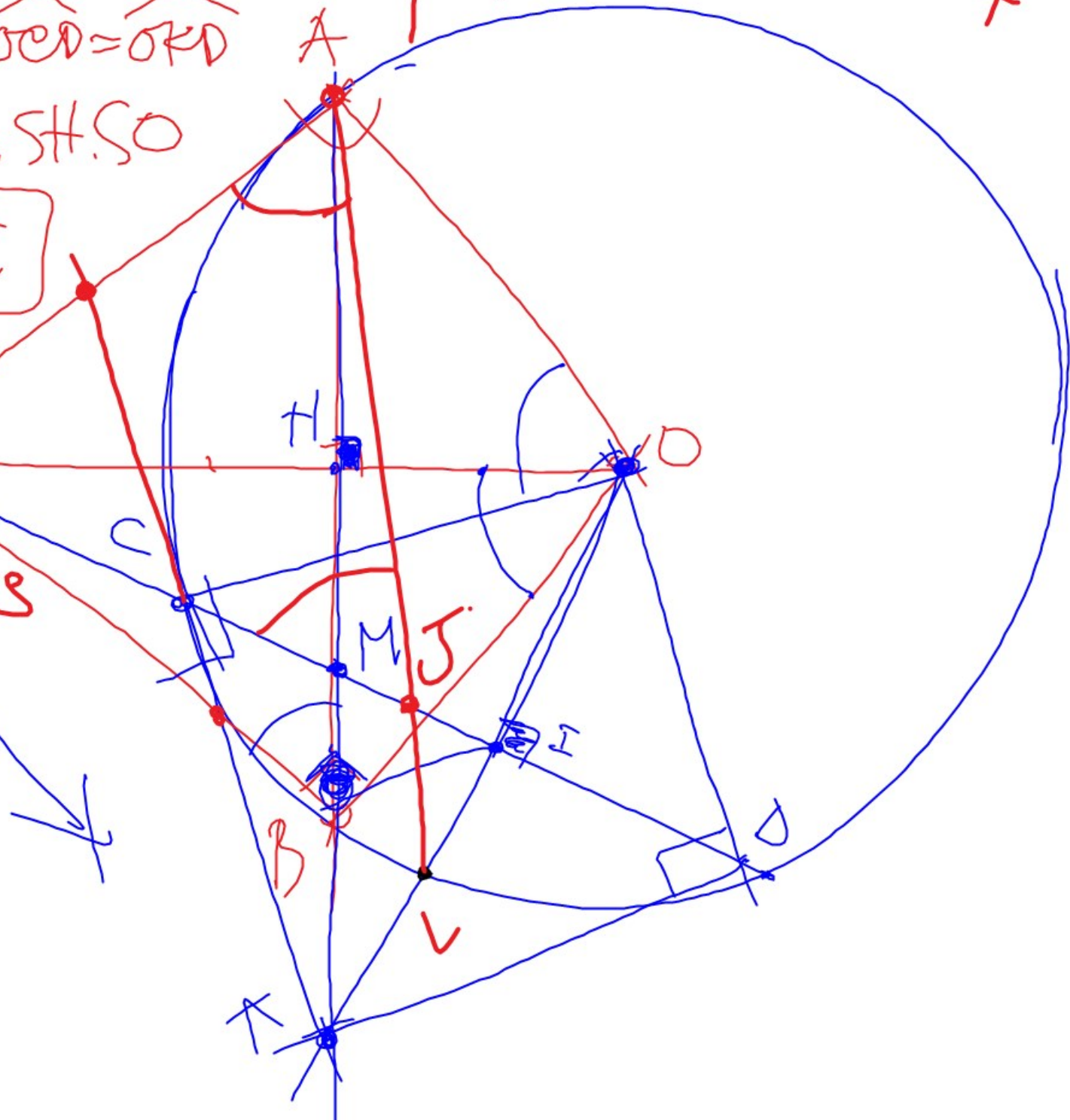
$$SA^2 = SC \cdot SD = SH \cdot SO$$

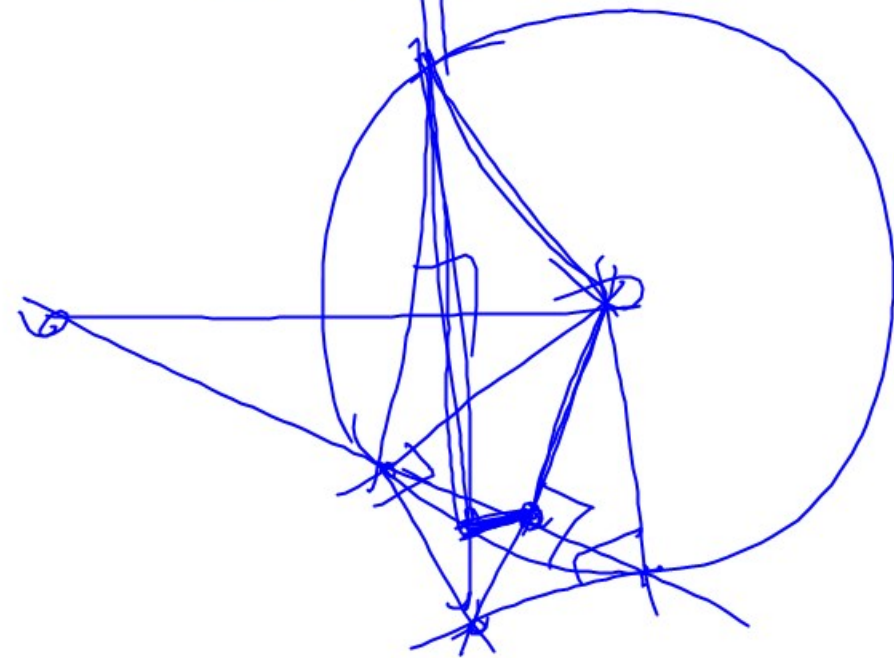
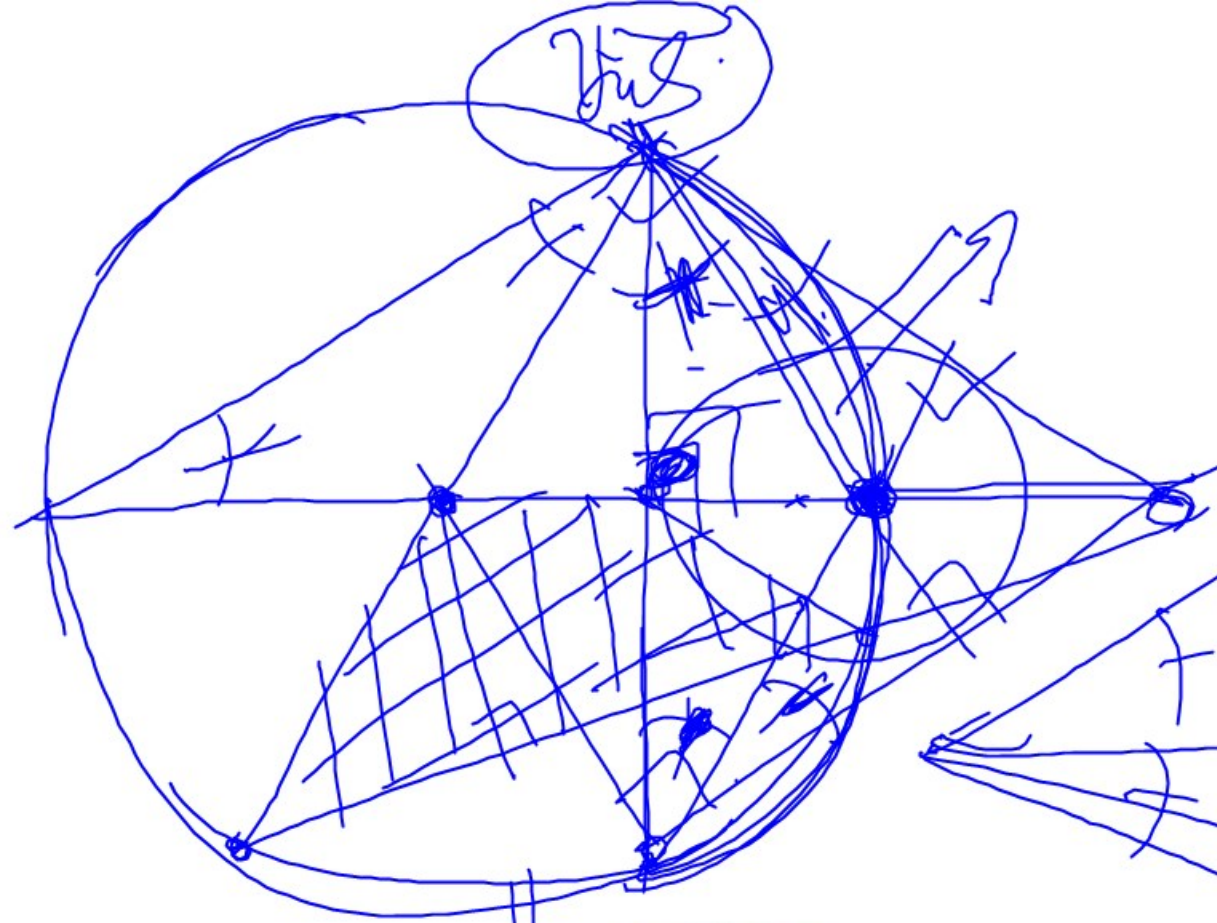
$$= SM \cdot SI$$

SO \perp AB
 \downarrow
 $\widehat{Q_1} = \widehat{Q_2} = \widehat{P_1}$

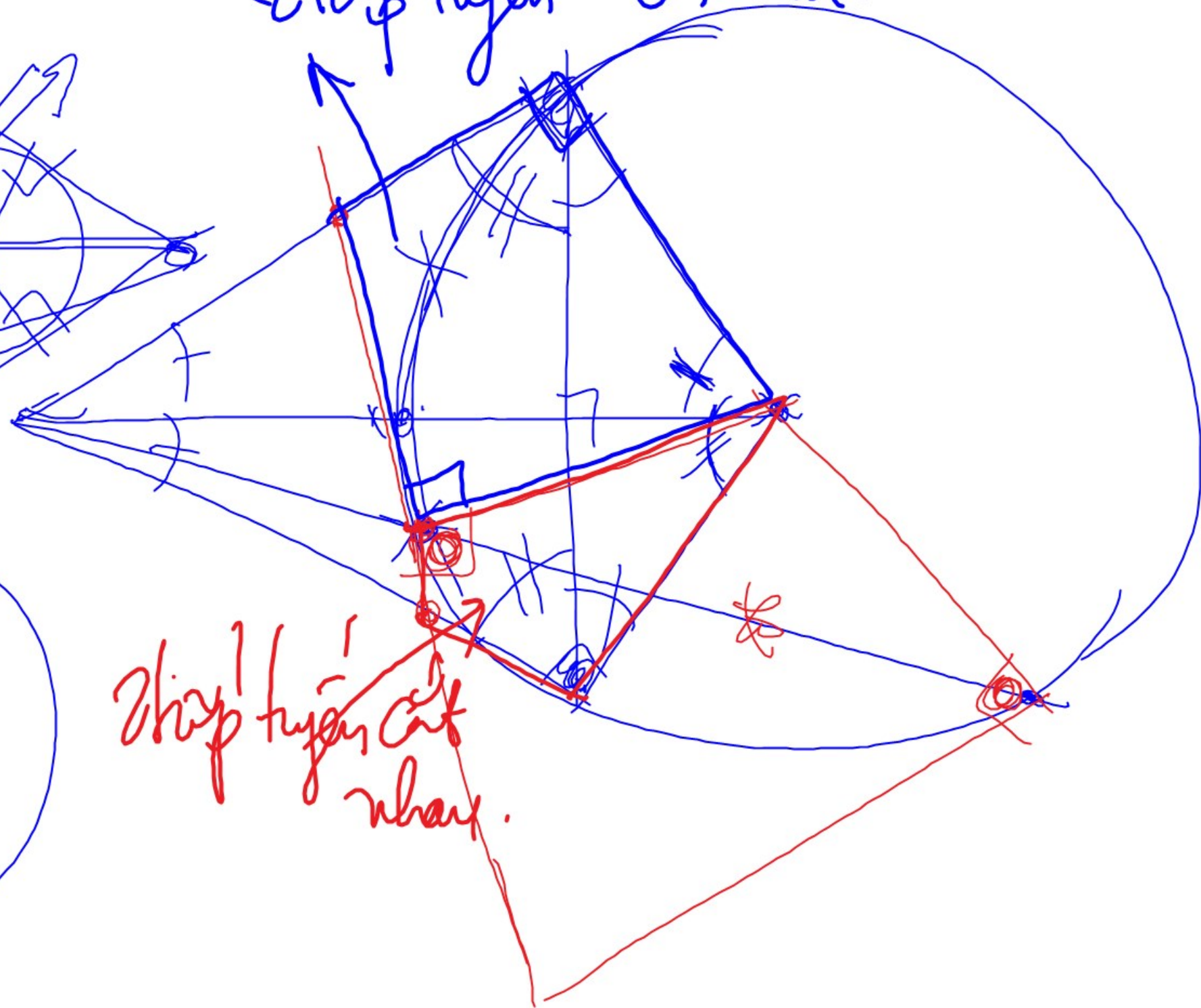
ΔSAT cân tại S

$\Rightarrow \widehat{P_1} = \widehat{Q_1}$
 $\Rightarrow SA$ là tiếp tuyến





2 tiếp tuyến cắt nhau.



2 tiếp tuyến cắt nhau.