$SA^2 = SH.SO = SC.SD = \boxed{SM.SL = SJ.SI}$ (JHOI nt) $\Rightarrow \boxed{JMLI \text{ nt}}$

CHOD nt $\Rightarrow$ HB pgiác CHD $\Rightarrow \Delta HCS \backsim \Delta HOD$

CM pgiác SCH ($\Delta CMS \backsim \Delta LDS$) $\Rightarrow OSD = OPH$

MD pgiác CDH $\Rightarrow$ SO pgiác CSP

$HO.HS = AH^2$

$HC.HD = HB^2$

• AM pgiác SAH $\Rightarrow$ M là tâm đtròn nội tiếp ΔSAB.

IS pgiác AIB ($SIB = SBA$)

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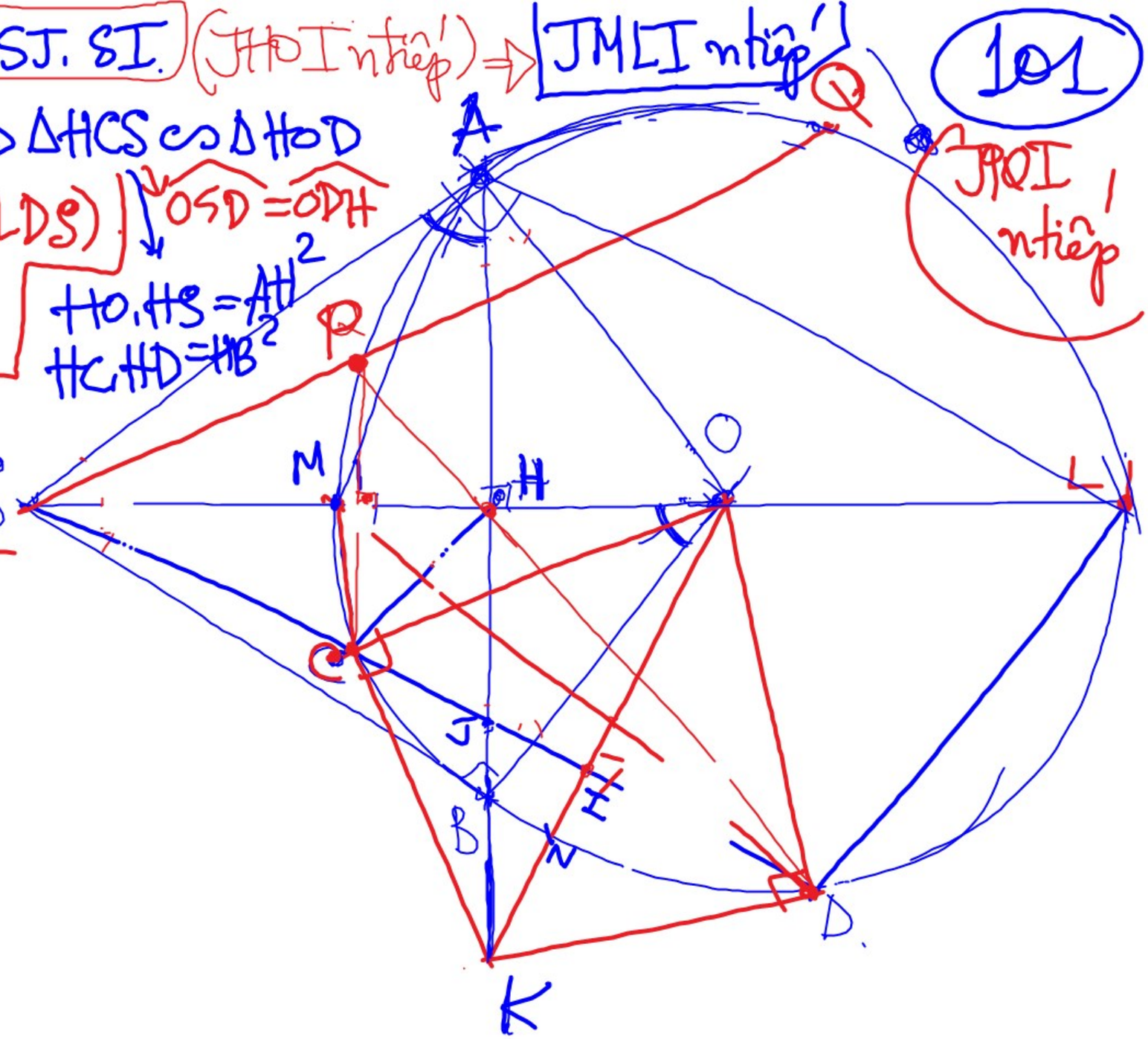
JQOI nt



$SA^2 = SH.SO = SC.SD =$ **SM.SL = SJ.SI.** (JHOI n.tiếp) ⇒ **JMLI ntiếp** ①

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② ROI ntiếp

CHOD ntiếp ; HB pgiác $\widehat{CHD}$ ⇒ ΔHCS ∽ ΔHOD

CM pgiác $\widehat{SCH}$ (ΔCMS ∽ ΔLDS) ⇒ $\widehat{OSD} = \widehat{ODH}$

MD pgiác $\widehat{CDH}$ ⇒ SO pgiác $\widehat{CSP}$

$HO.HS = AH^2$

$HC.HD = HB^2$

◎ AM pgiác $\widehat{SAH}$ ⇒ M là tâm đ tròn nội tiếp Δ SAB.

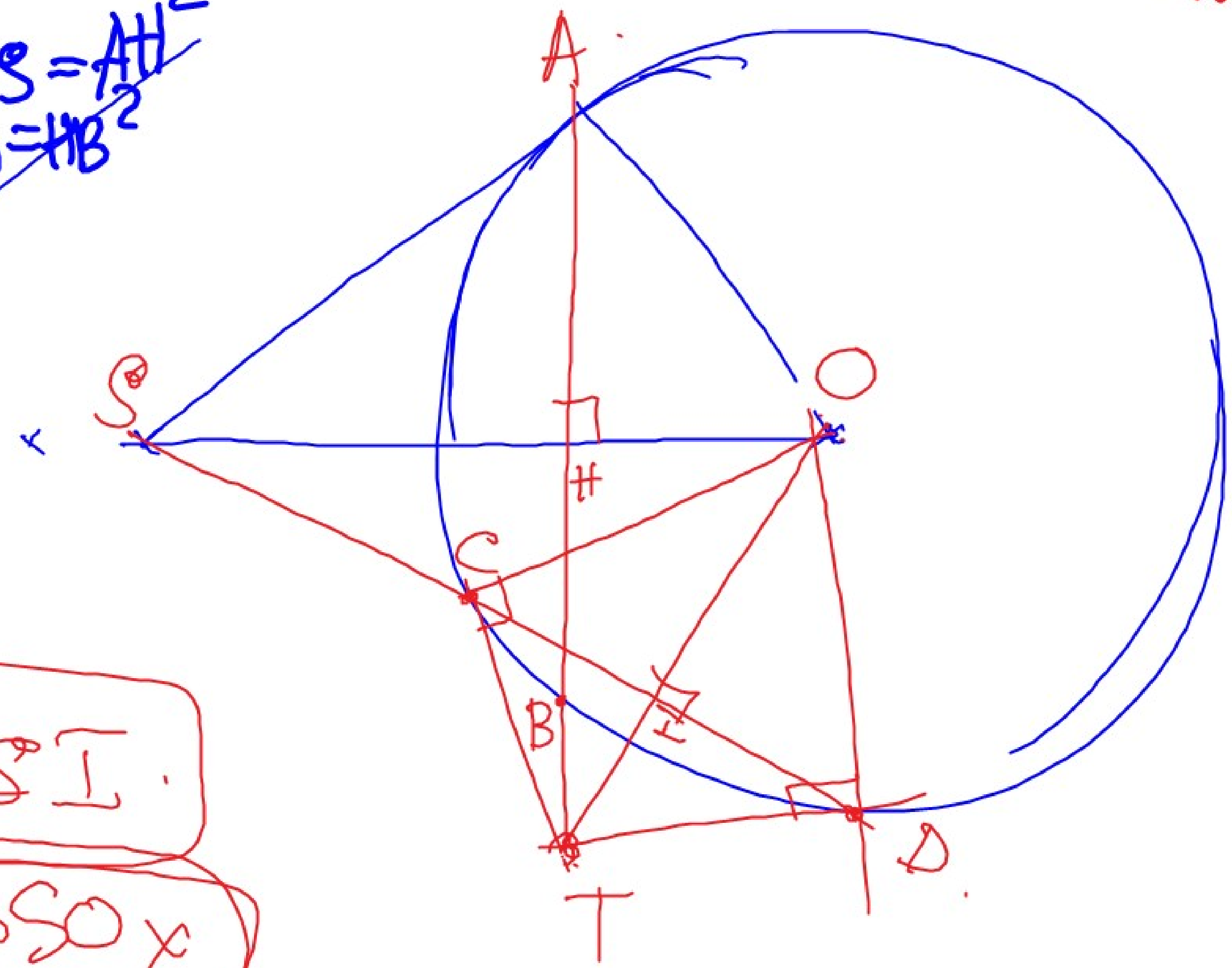
IS pgiác $\widehat{AIB}$ ($\widehat{SIB} = \widehat{SBA}$)

Kỹ năng

$SA^2 = SJ.SI.$

⇒ $SM.SL = SH.SO$ ×

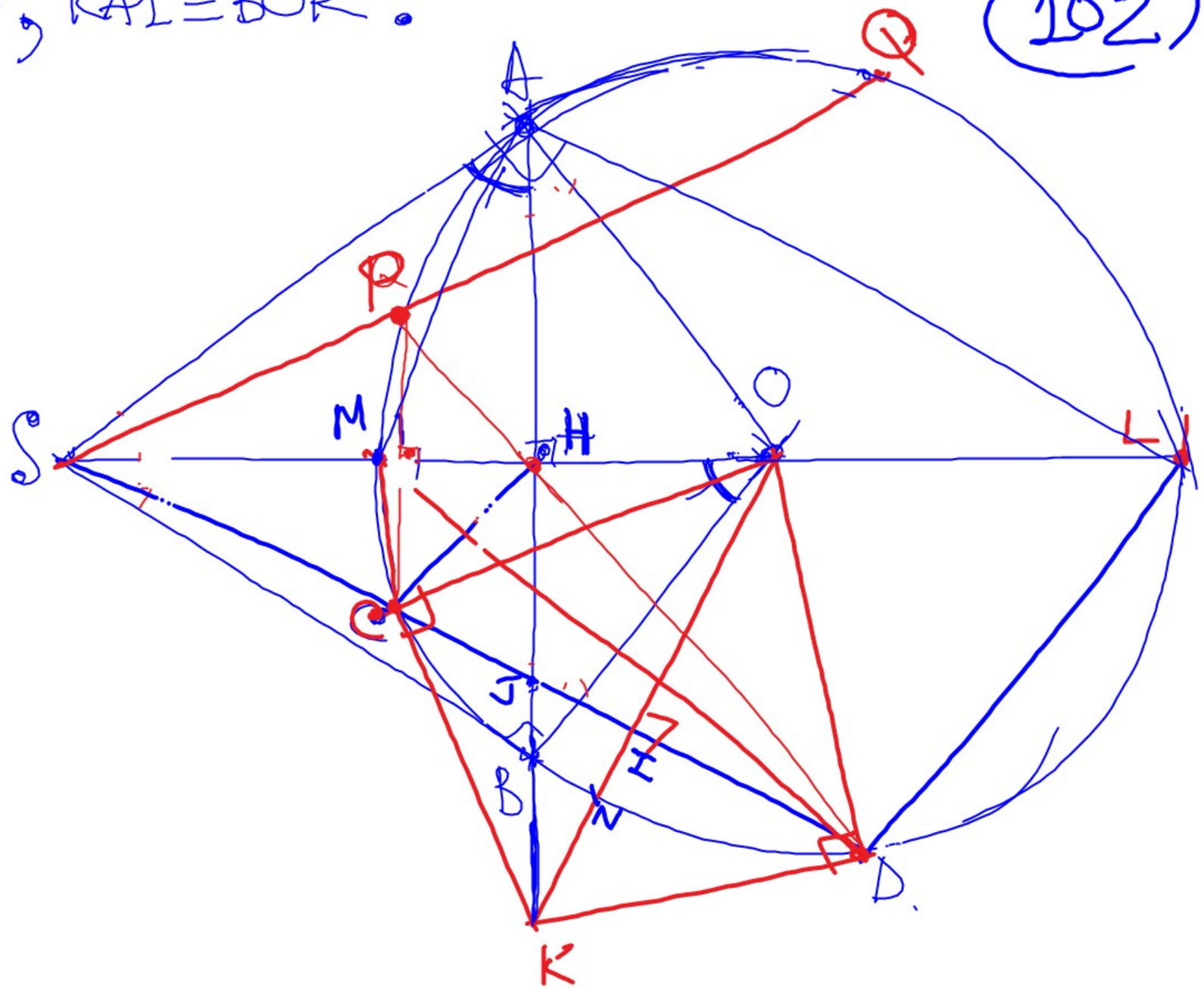
$SM.SL = SJ.SI.$



SAOIB nt $\Rightarrow \widehat{SAB} = \widehat{SIA}$; $\widehat{KAI} = \widehat{BOK}$.

KCHOD nt

SHIK nt



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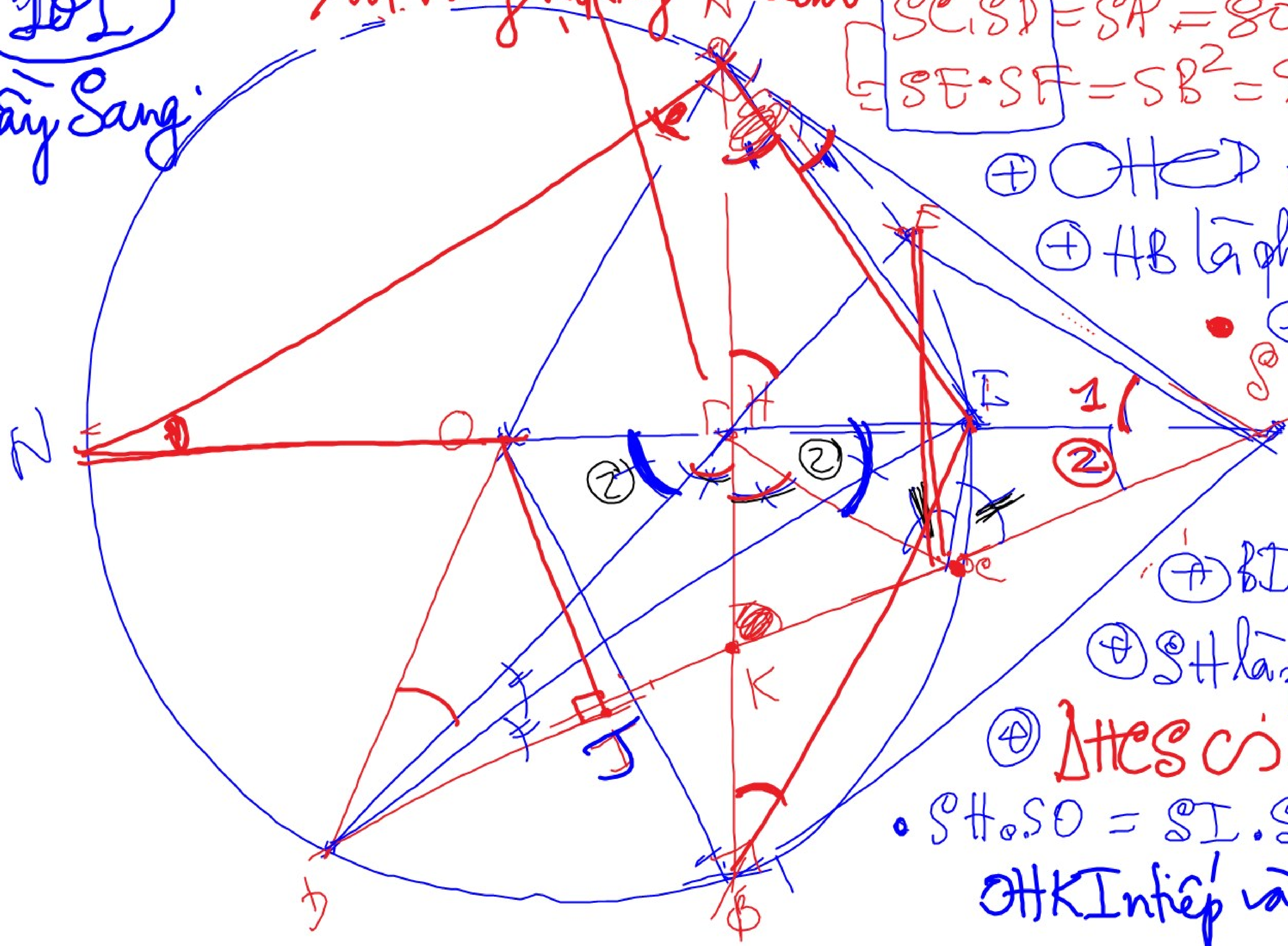
Thầy Sang

C/m. Vuông tại tg A điểm



$SC.SD = SA^2 = SO^2 - R^2 (OA^2)$
$SE.SF = SB^2 = SO^2 - OB^2 (R^2)$
} Phương tích.

+ OHCD nội tiếp
+ HB là phân giác $\widehat{DHC}$
+ CI là p giác $\widehat{SCH}$
+ DI là p giác $\widehat{CDE}$
+ AI ——— $\widehat{SAH}$.
+ BI là p giác $\widehat{SBH}$,
+ SH là p giác $\widehat{CSE}$.
+ $\Delta HCS \sim \Delta HOB \Rightarrow \widehat{OSD} = \widehat{ADI}$

• $SH.SO = SI.SN = SK.SJ$.

OHKI n tiếp và KJNI n tiếp

① SAOBI nội tiếp đường tròn đường kính SO $\Rightarrow \widehat{ABO} = \widehat{ASO}$

② OHCD _____ KO $\Rightarrow \widehat{OCD} = \widehat{OKD}$.

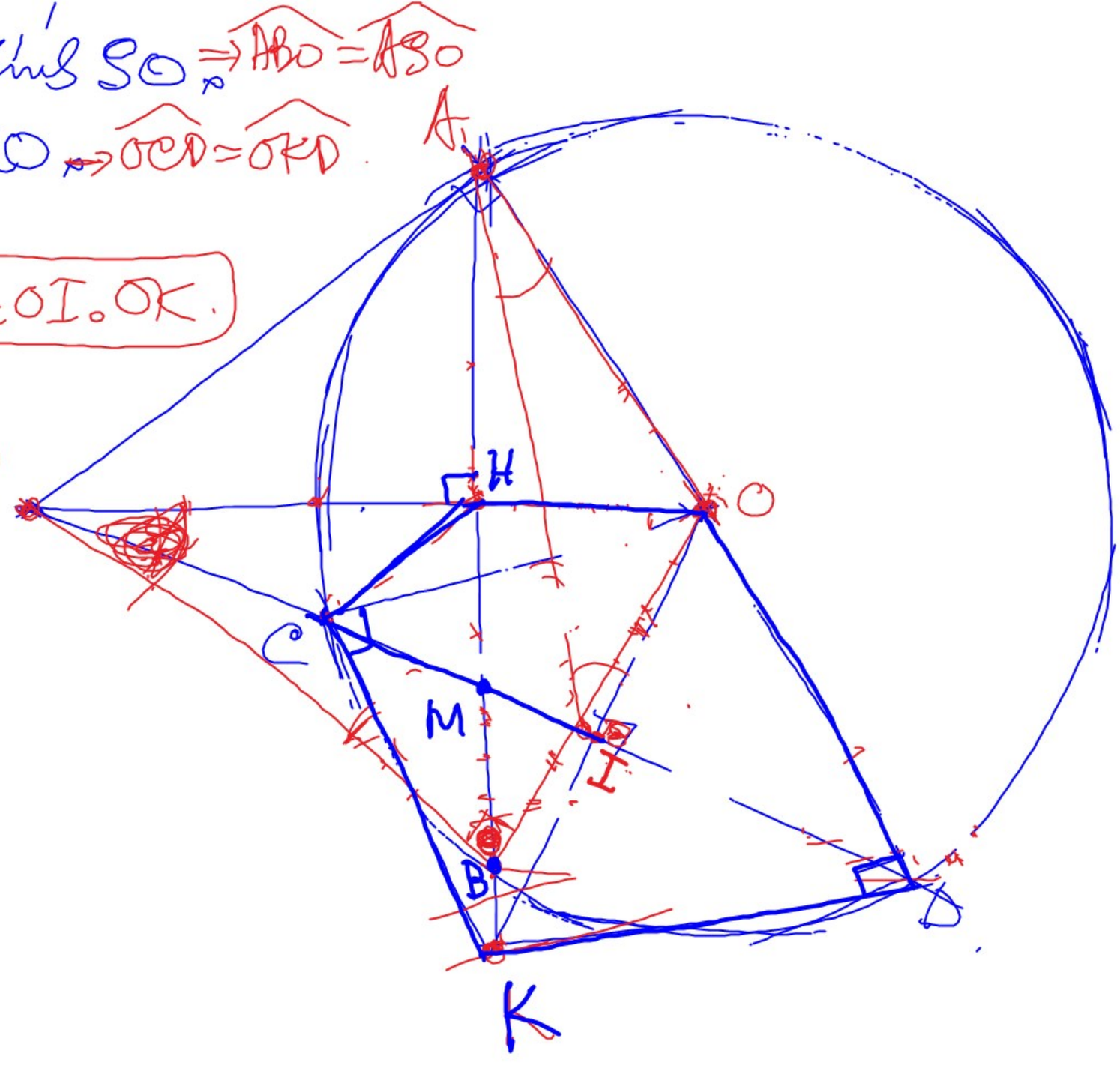
③ ABK thẳng hàng

④ SHIK nội tiếp $\Rightarrow$ $\boxed{OH.OS = OI.OK}$.

$\boxed{OA^2 = OH.OS = OI.OK}$

• $SA^2 = SH.SO = SC.SD = SM.SI$

(OHMI nội tiếp).



① SAOBI nội tiếp đường tròn đường kính SO $\Rightarrow \widehat{BAI} = \widehat{BOK}$ | $SA^2 = SI^2 = SC^2$

② OHCK _____ KO $\Rightarrow \widehat{OCD} = \widehat{OKD}$

③ A, B, K thẳng hàng | $SA^2 = SC.SD = SH.SO$

$= SM.SI$

SO ⊥ AB

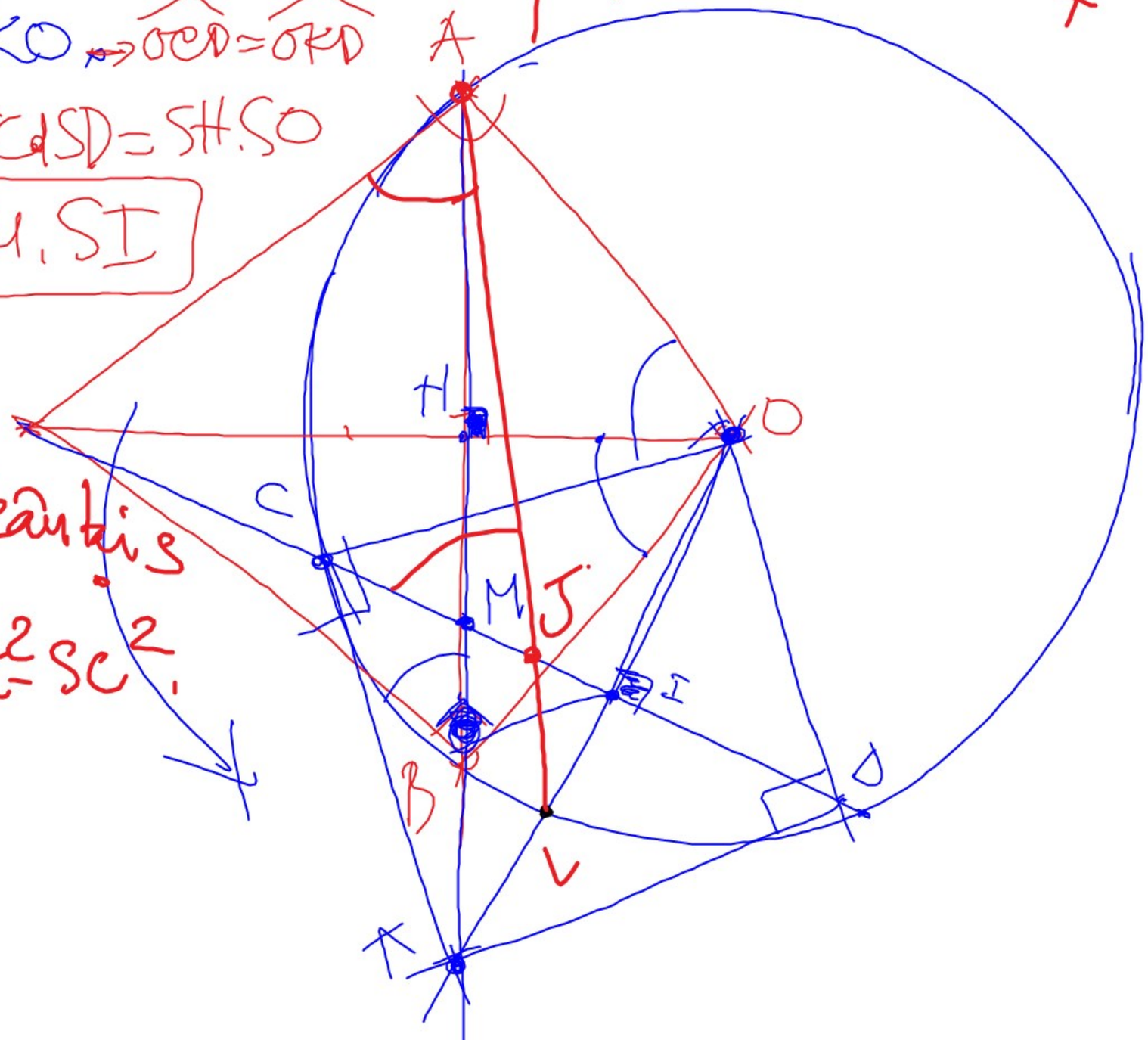
$O_1 = O_2 = B_1$

$\Rightarrow B_1 = O_1$

$\Rightarrow$ SA là tiếp tuyến

ΔSAI cân tại S

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



① SAOBI nội tiếp đường tròn đường kính SO $\Rightarrow \widehat{ABO} = \widehat{ASO}$

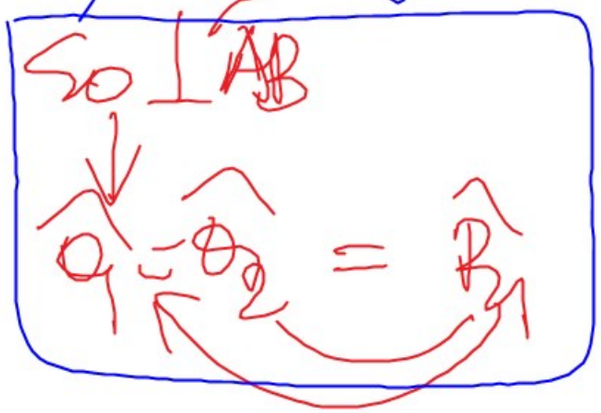
② OHCK _____ KO $\Rightarrow \widehat{OCD} = \widehat{OKD}$

③ A,B,K thẳng hàng.

$SA^2 = SC.SD = SH.SO$

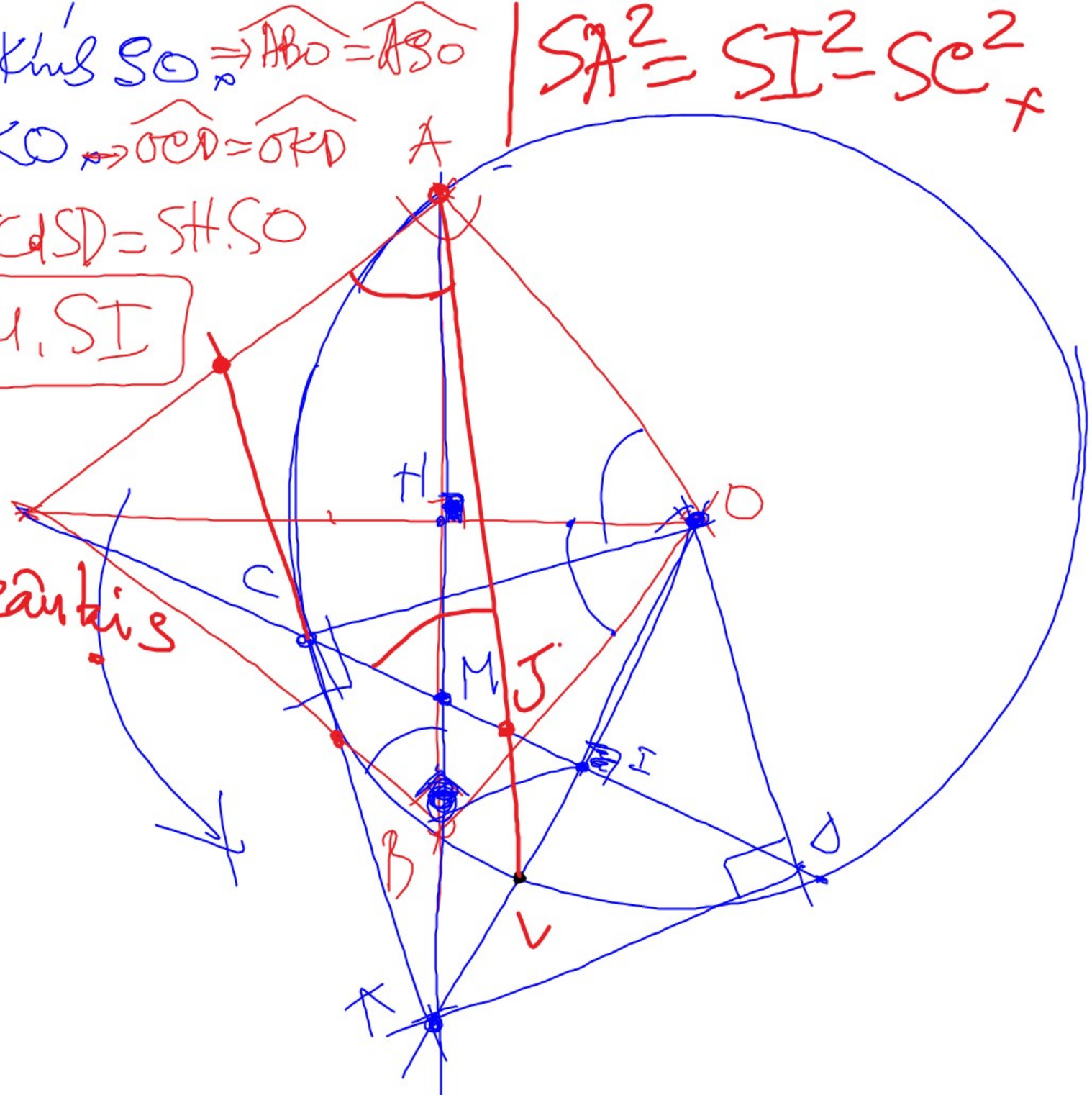
$= SM.SI$

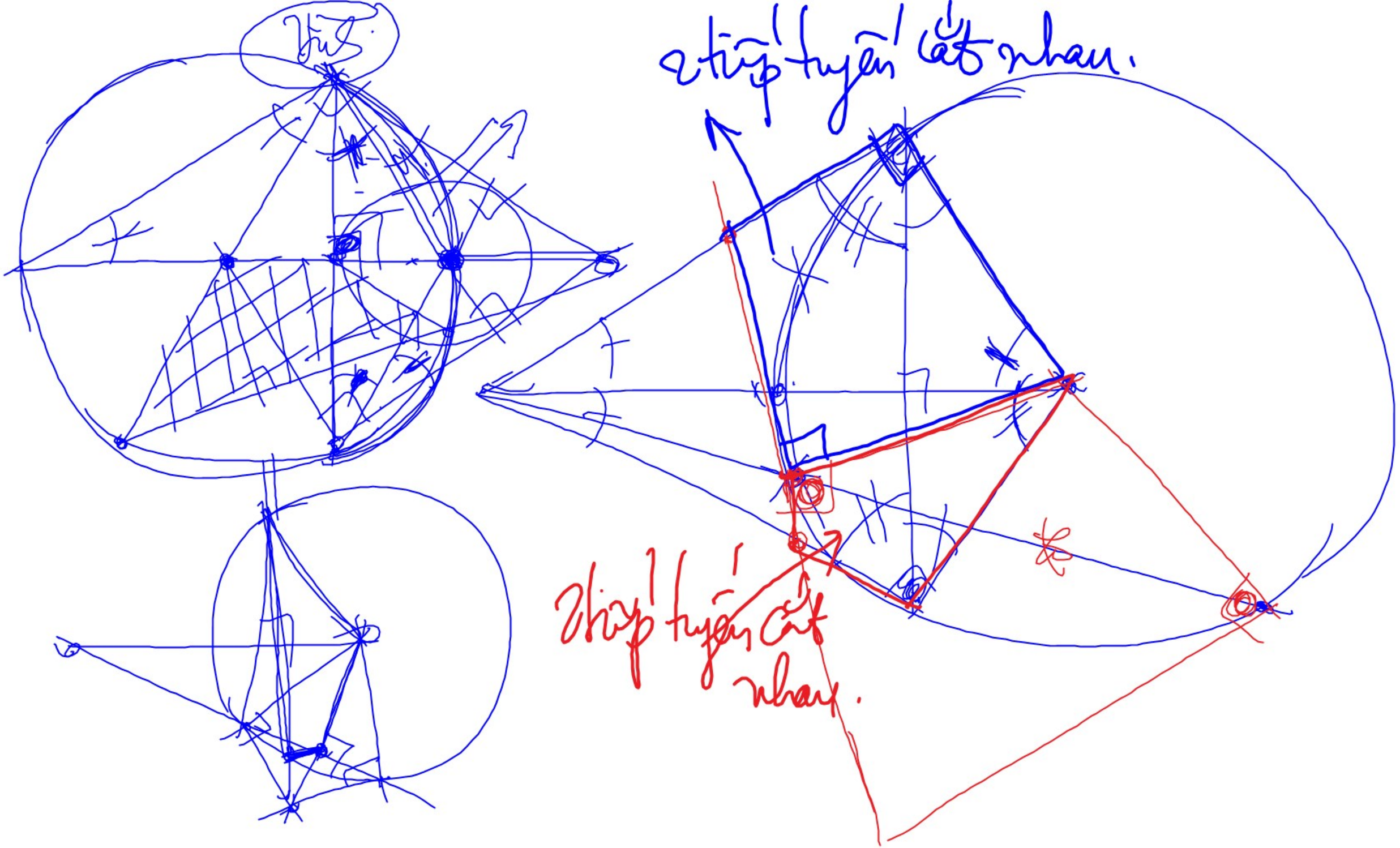
$SA^2 = SI^2 = SC^2$ *



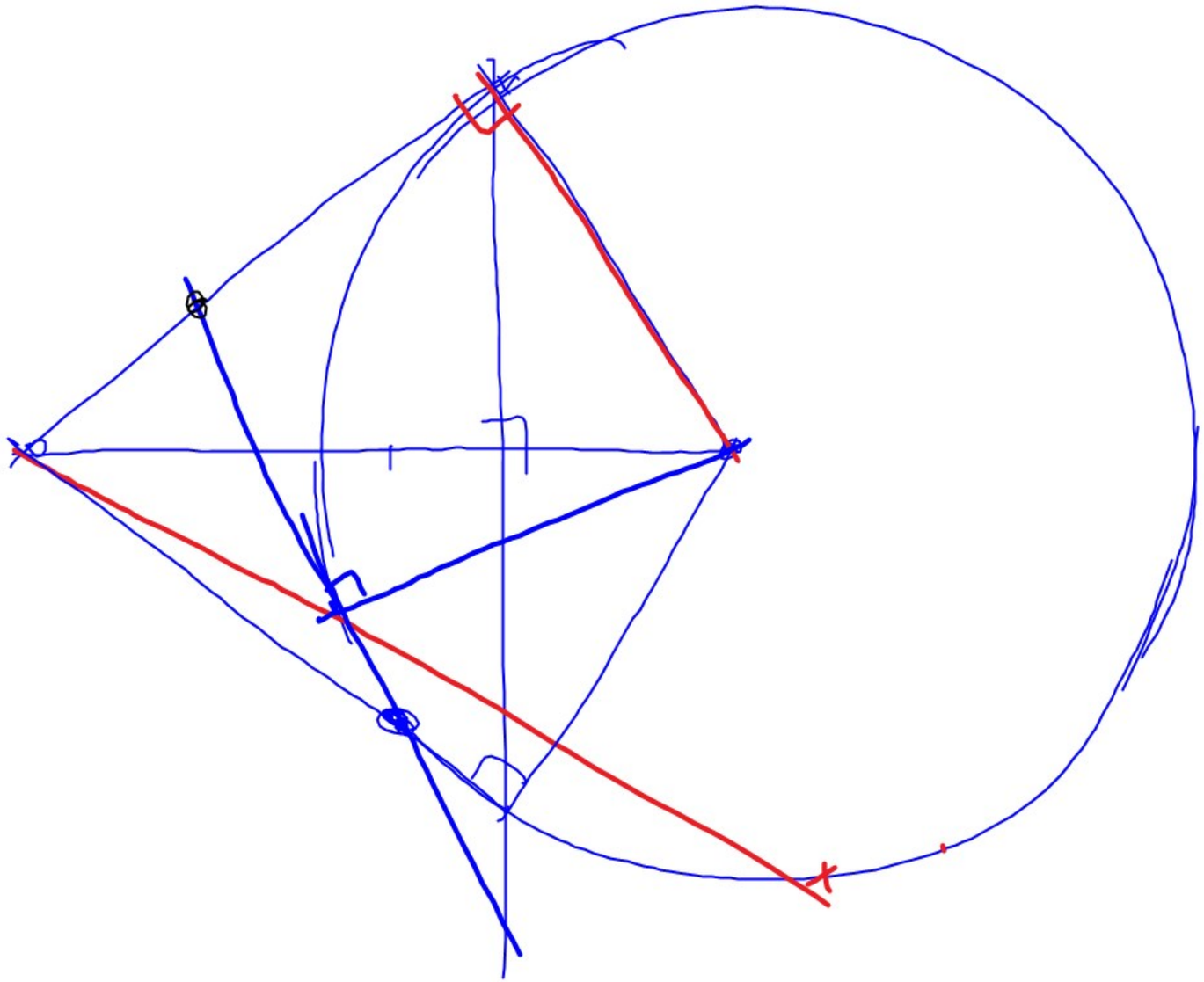
$\Rightarrow B_1 = O_1$ *

$\Rightarrow$ SA là tiếp tuyến




tiếp tuyến cắt nhau.
tiếp tuyến cắt nhau.

102 9A2 Real



102 Real 15/7/18