

G3

Advanced

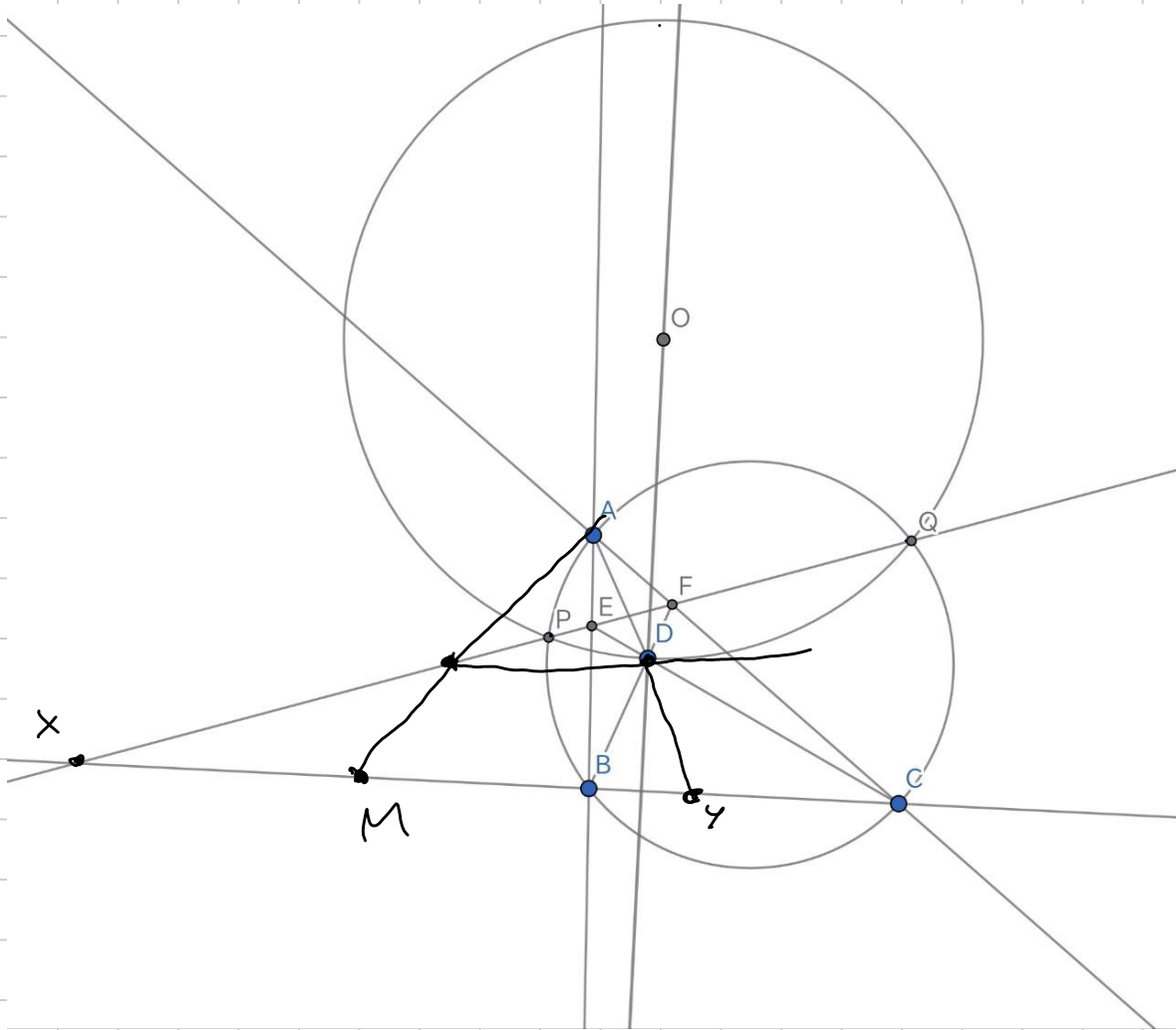
Senior

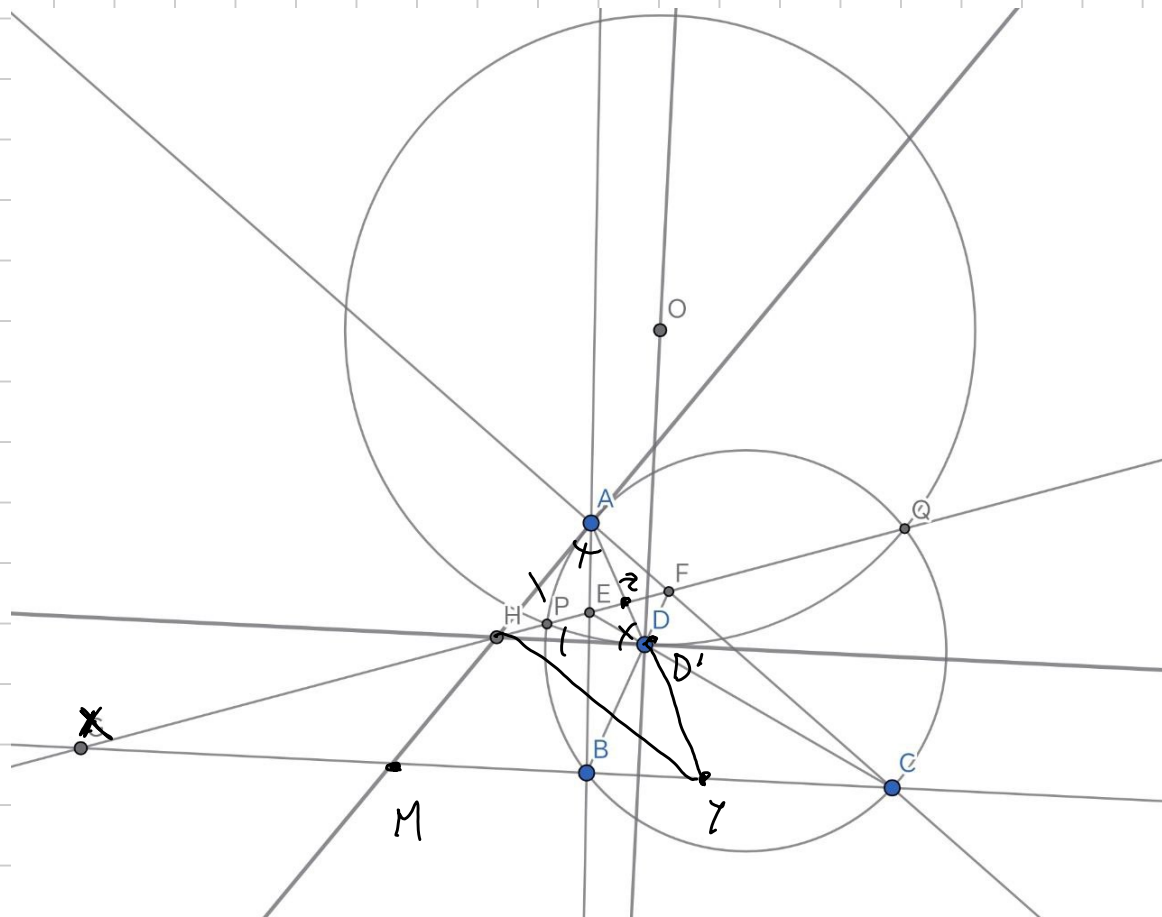
2025

Titolo nota

06/09/2025

P.1)





H

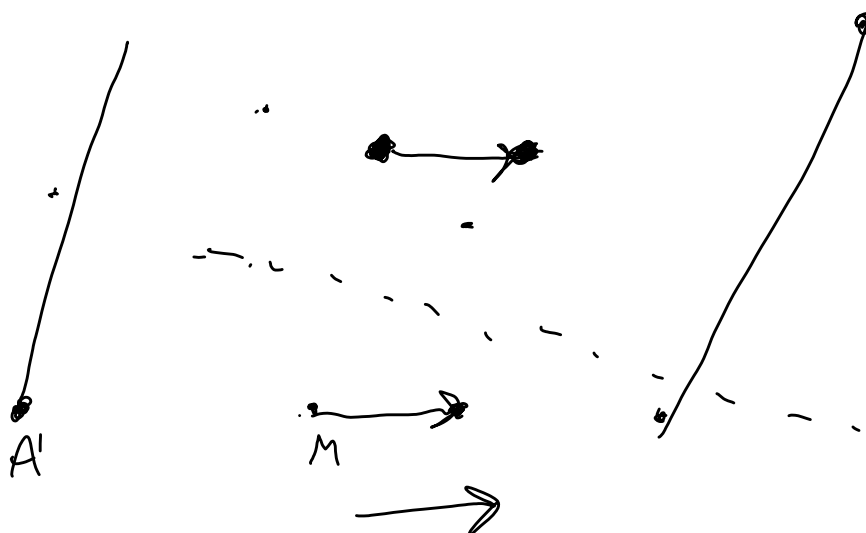
$H = \tan A \cap EF$

A . . . B
m

$(X, Y; M, P)$

$(A, D'; z, Y)$ $(A, D; z, Y)$
 $D = D'$ $\square$

P2



M è punto
medio di FG

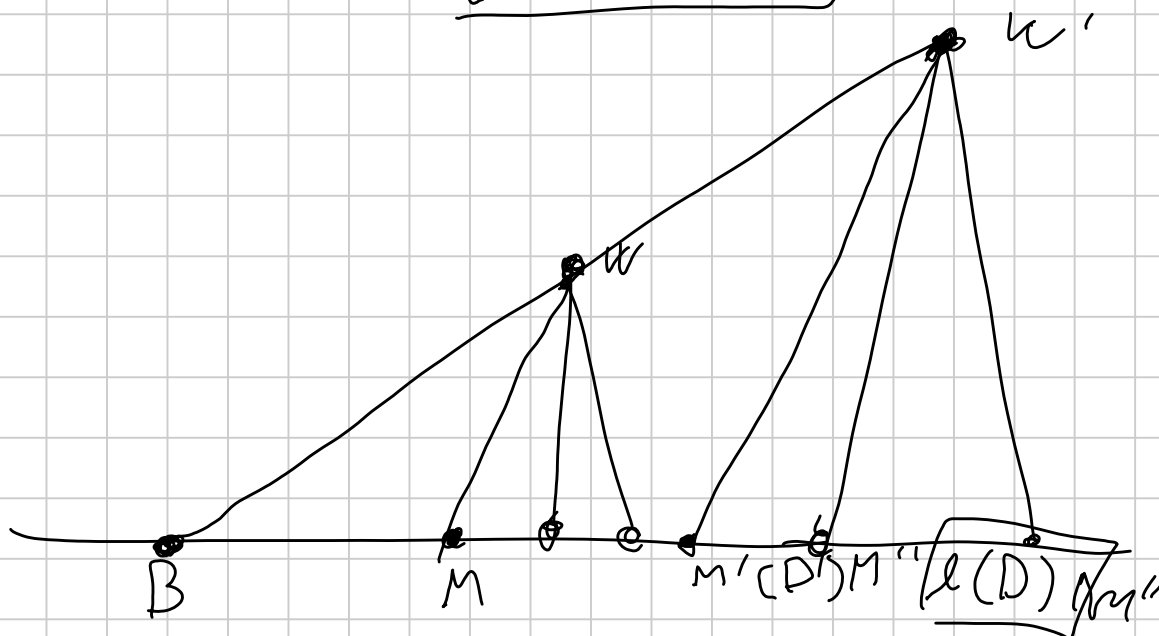


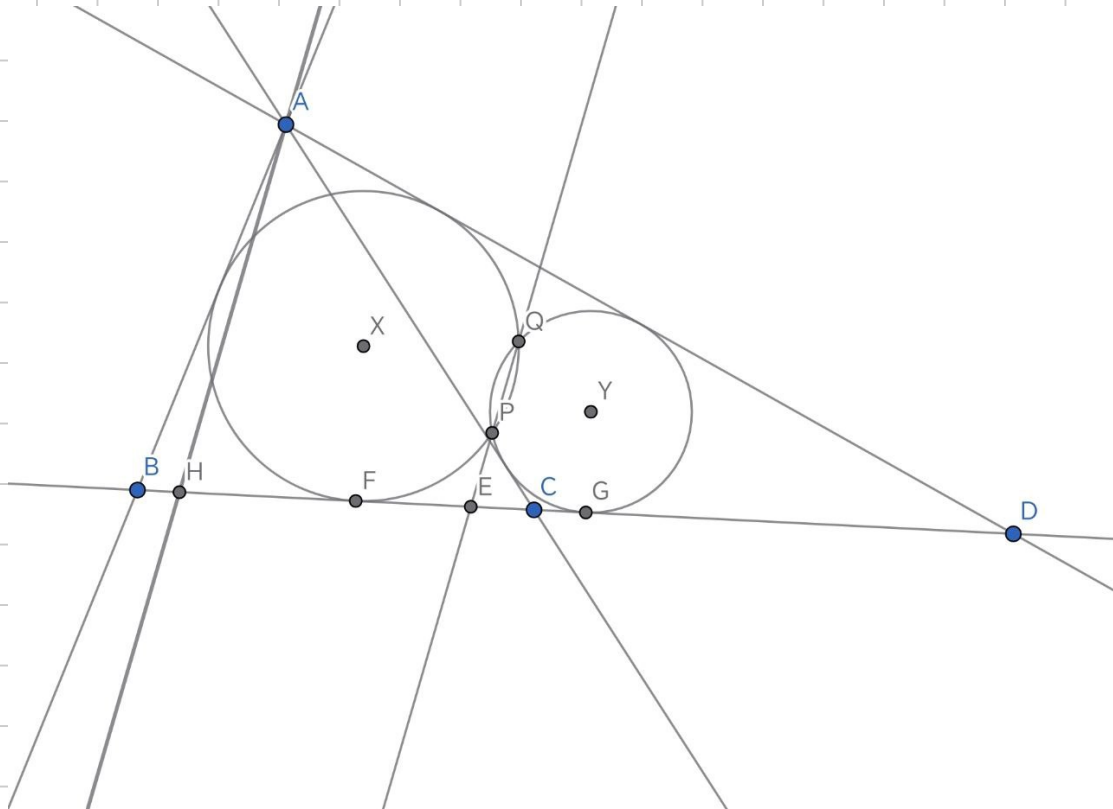
$$BF = \frac{BA + BD - AD}{2} \quad CG = \frac{CA + CD - AD}{2} \Rightarrow BG = CG + BF$$

$$BM = \frac{BA + BD - AD + CA + CD - AD}{2}$$

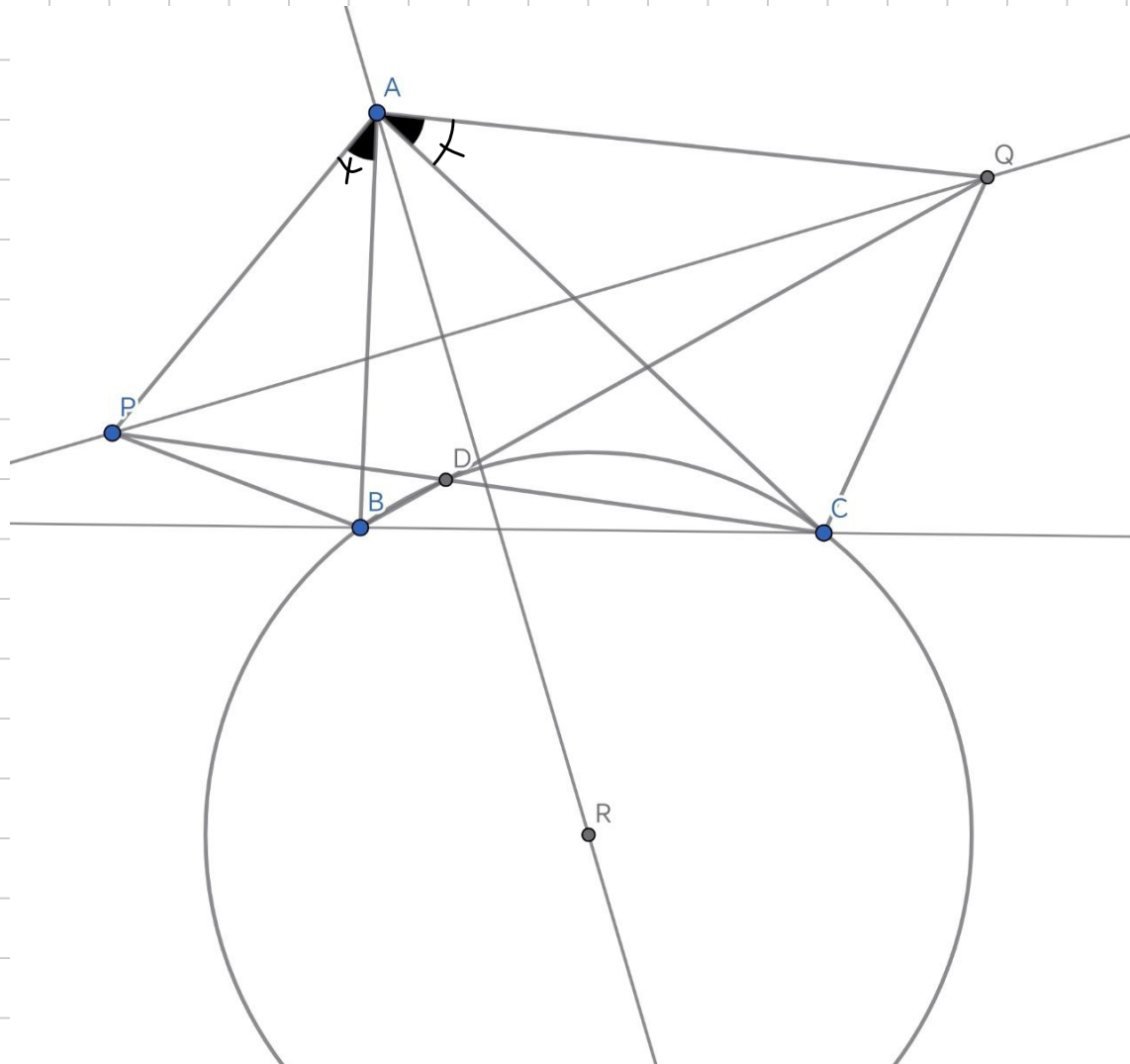
$$\frac{2BD - 2AD}{2} = BD - AD$$

$$BD - AD$$

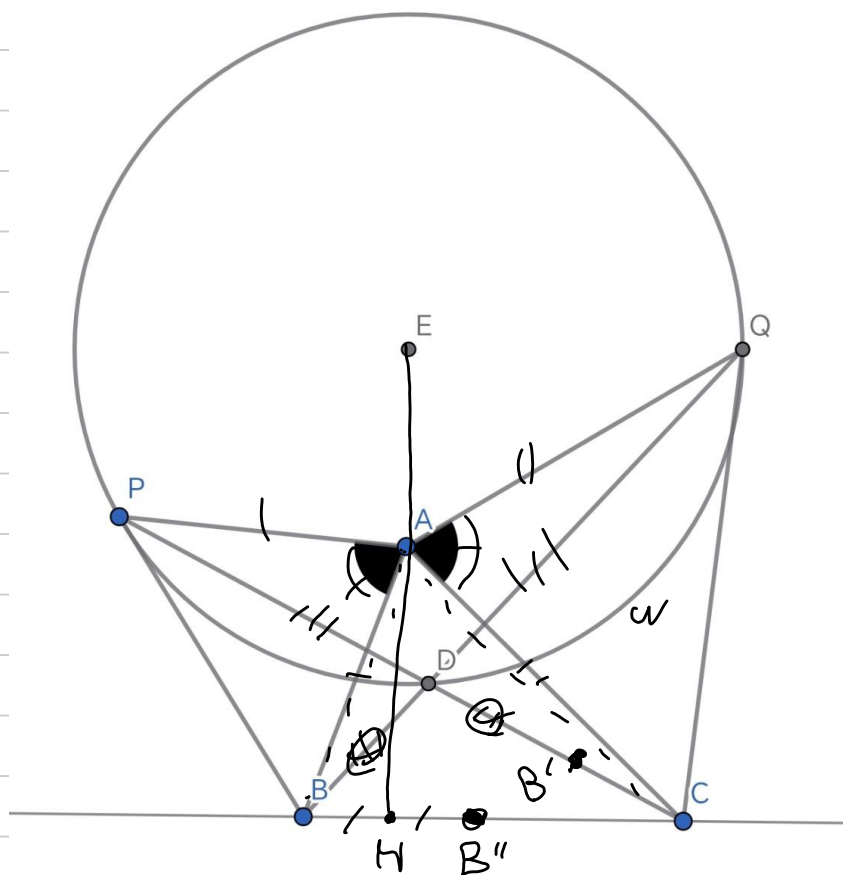




1



$$P \equiv Q \quad B$$



E centro (PDQ)

$$Pow_w(B) - BA^2 =$$

$$Pow_w(C) - CA^2 =$$

$$\frac{CA^2 - BA^2}{Pow_w(C) - Pow_w(B)}$$

$$\frac{AH^2 + CH^2 - BH^2 + HA^2}{CB''} = \boxed{CH - BH} \cdot \frac{BC}{CH + BH}$$

$$Pow_w(C) = CD \cdot PC \quad Pow_w(B) = BD \cdot BQ = BD \cdot PC$$

$$Pow_w(C) - Pow_w(B) = PC(CD - BD)$$

==

$$B'^* = (BPB'') \cap PC$$

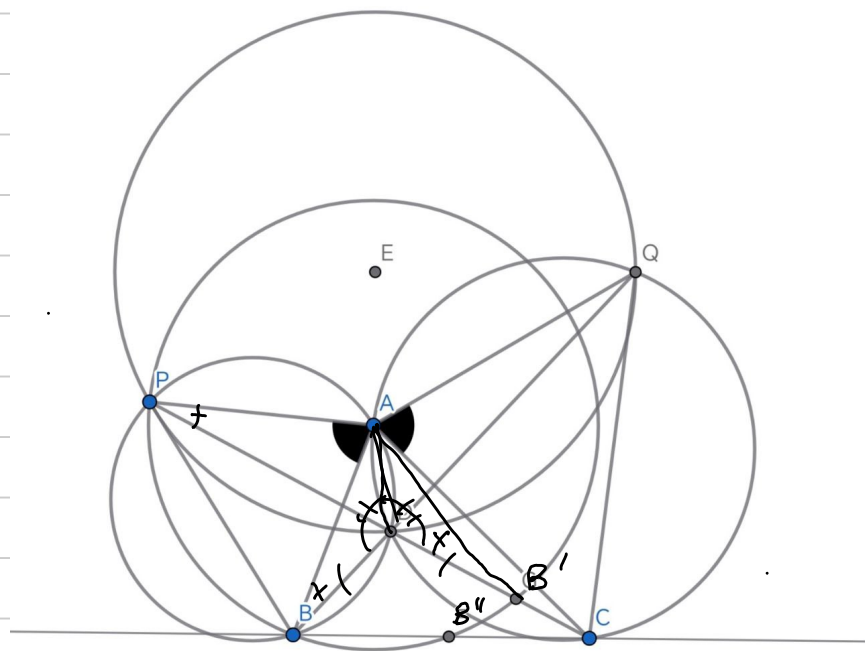
$$B'^* = B'$$

$$\odot (BPB'') = A$$

$$\begin{aligned} \angle BDA &= 180^\circ - \angle BPA \\ &= 180^\circ - \angle AQC = \end{aligned}$$

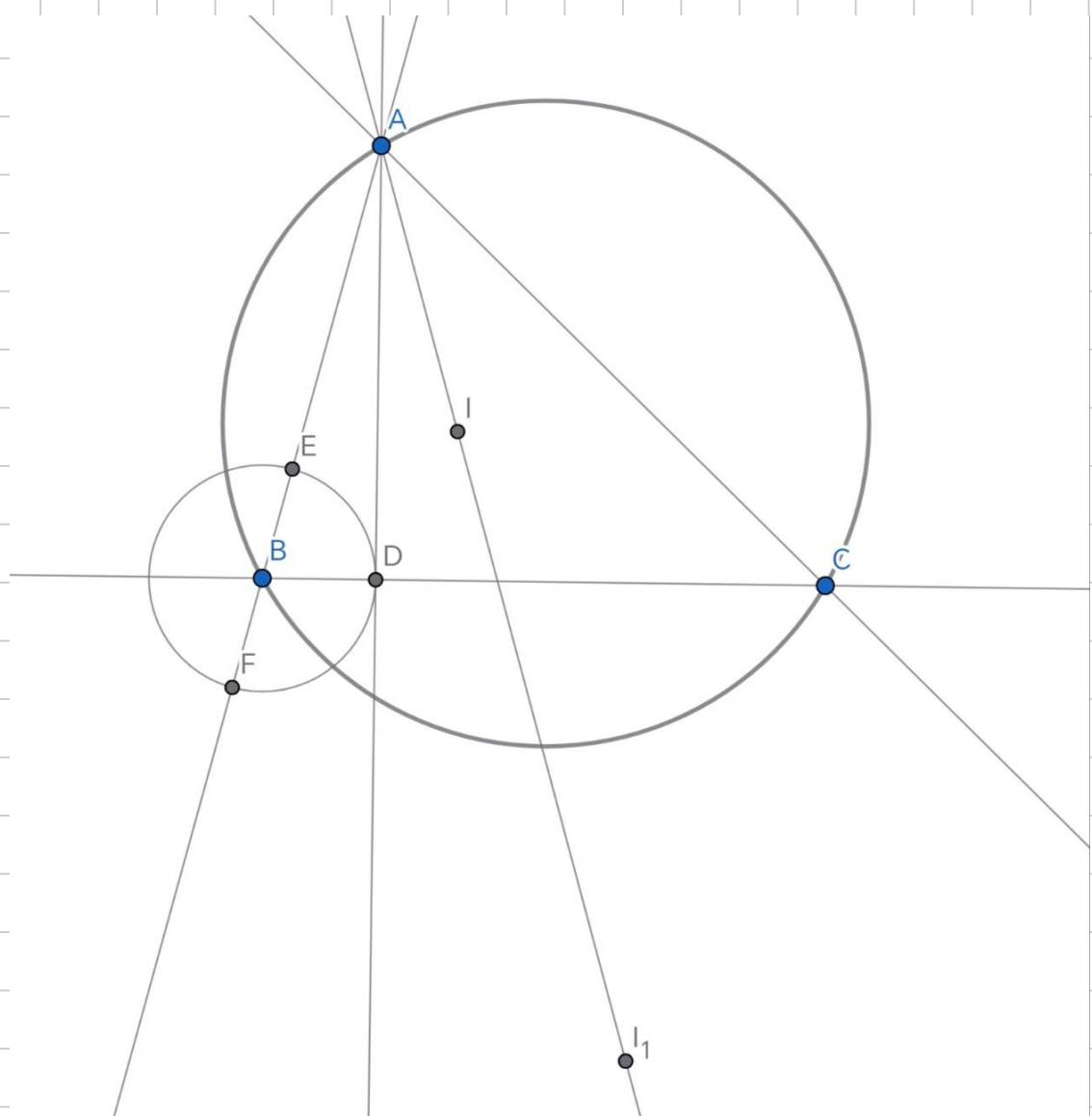
$$B'' \text{ t.c. } B'A = ABADc$$

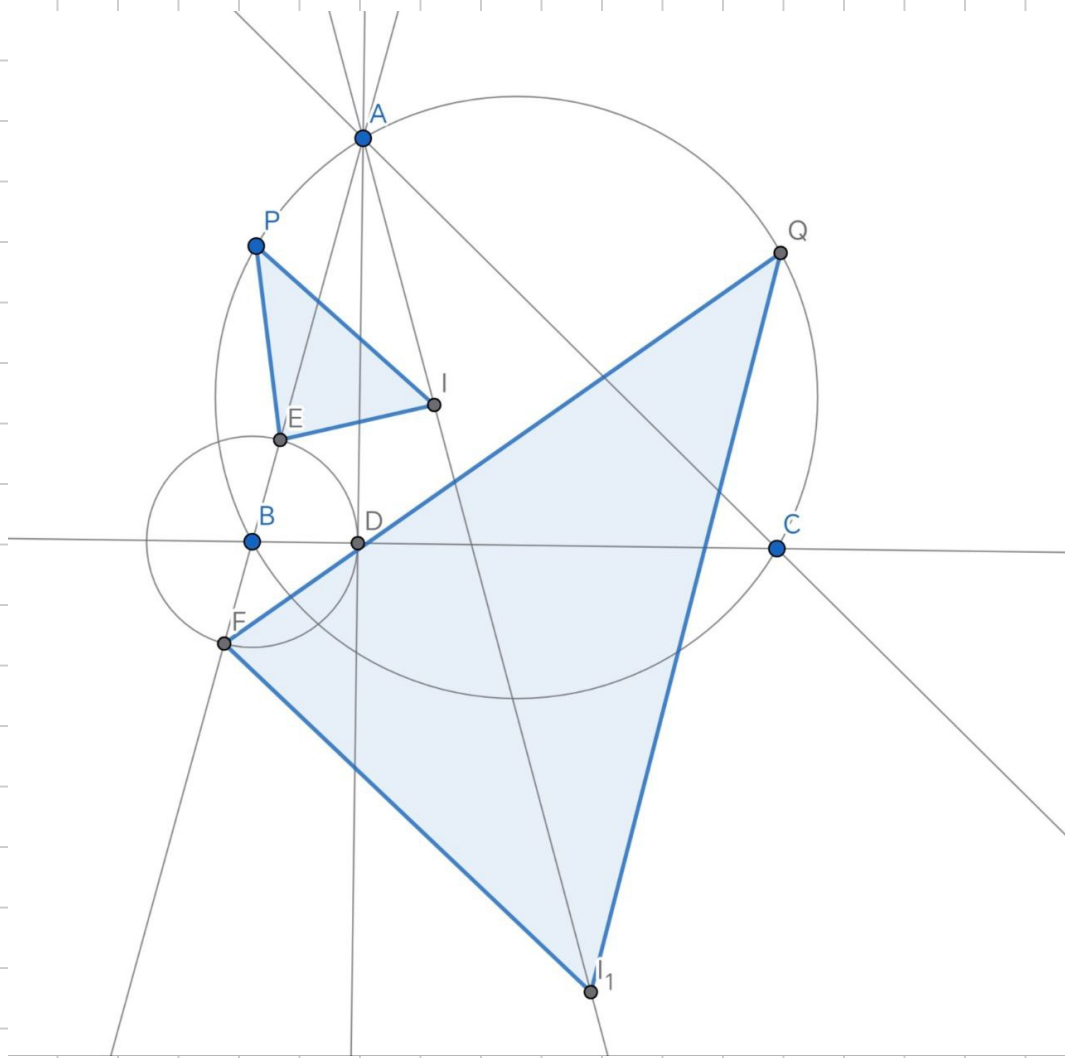
$$B' \text{ t.c. } DB' = DB$$

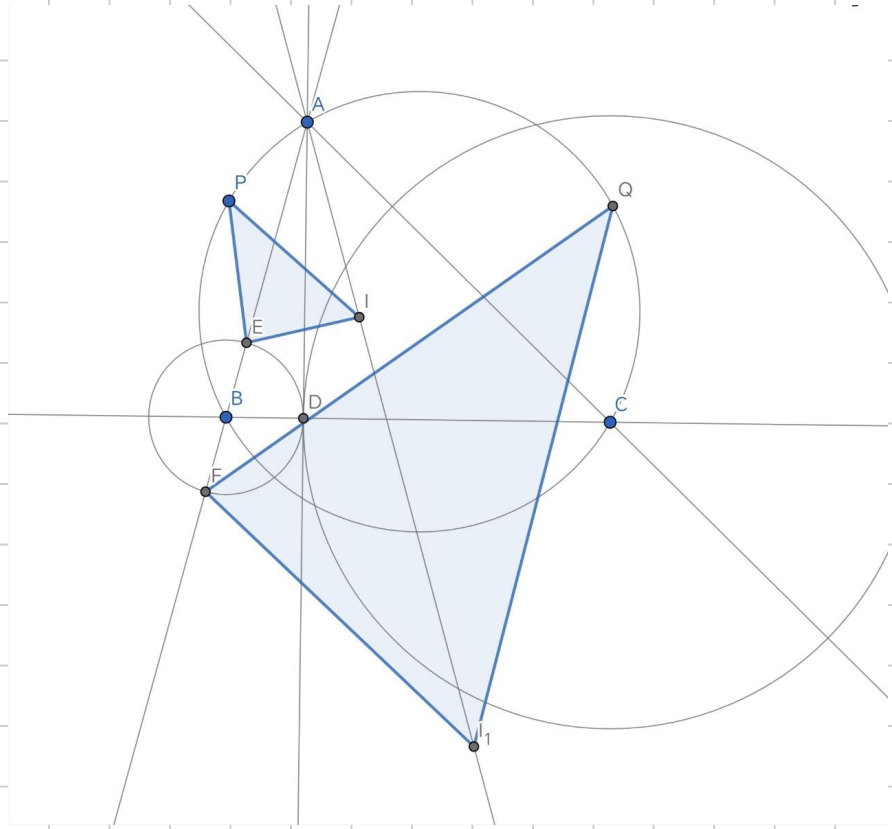


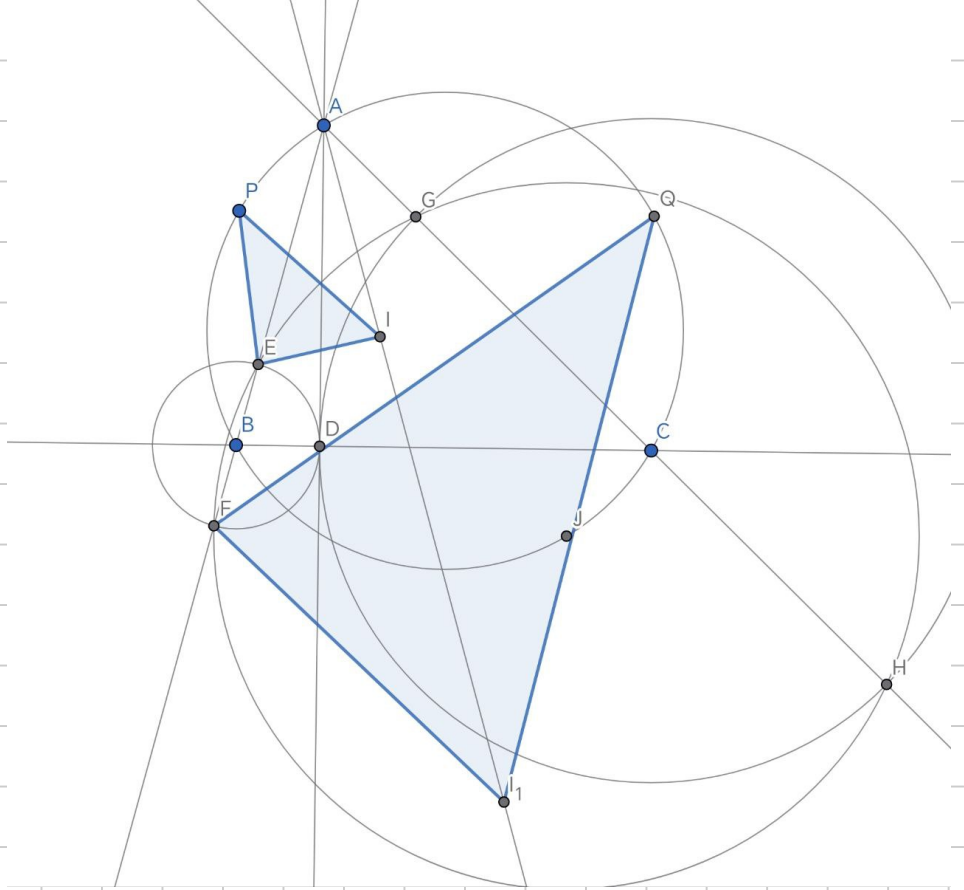
$$AB' = AB$$

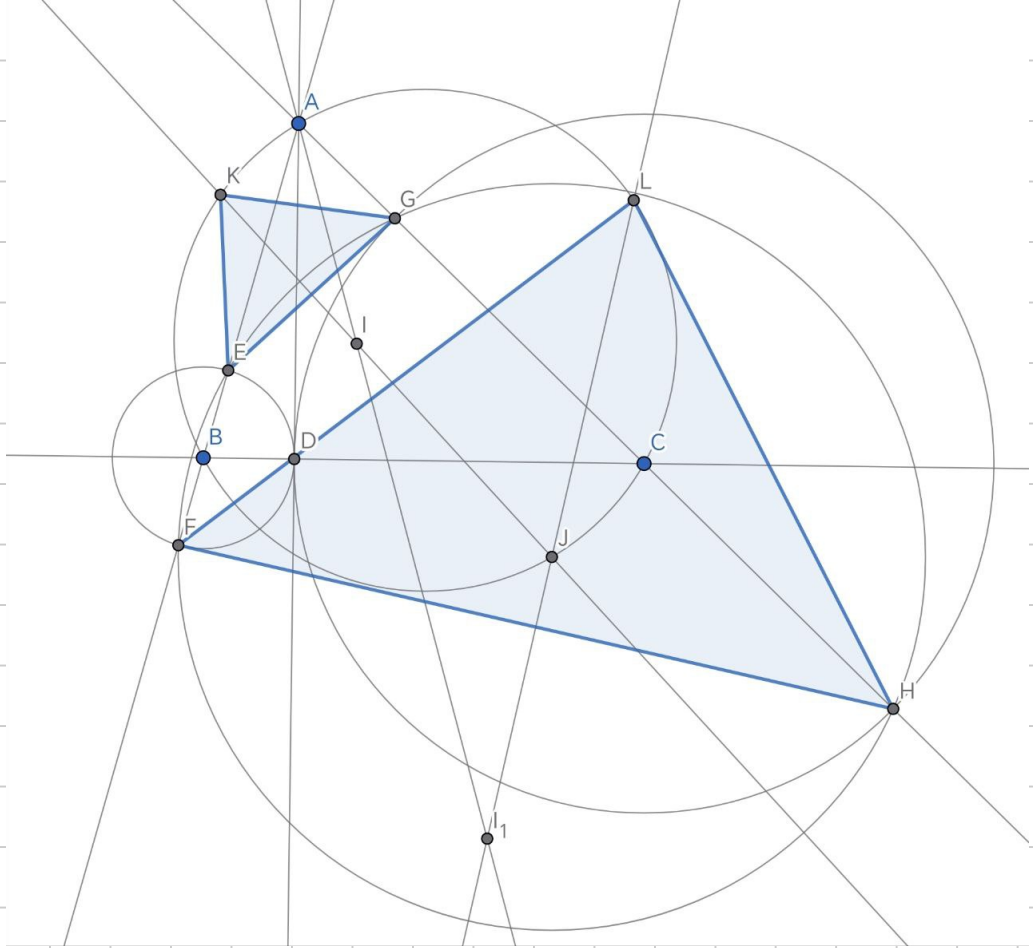
$$ABD \cong ADB'$$

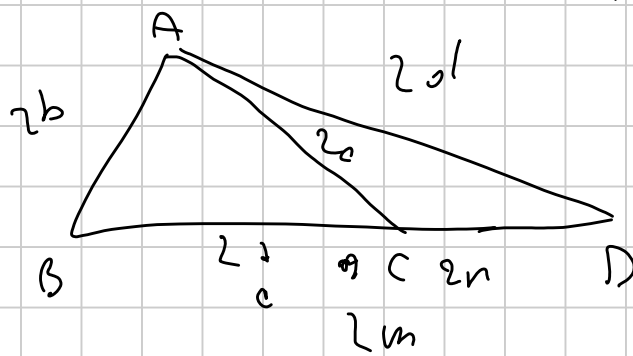












$$b+m-d \quad c-d-n+2m$$

$$b-c+n-m = (b-c-d)$$

$$b+c+3m-2d-n$$

$$m-b-d$$

$$b+d-m \quad c+d-n$$

$$b-c+(n-m) = b-c-d$$

$$(b+c+2d-m-n)$$

$$b+c+3m-2d-n$$