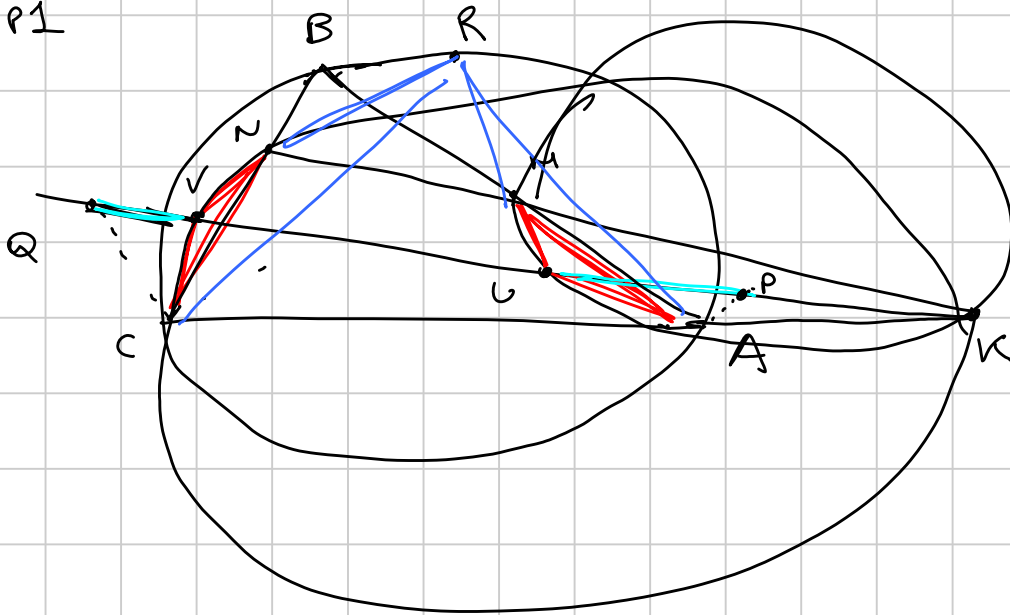


S26X - G2

Thothole

Titolo nota



$$U = KP \cap (RAM)$$

$$V = KQ \cap (KCN)$$

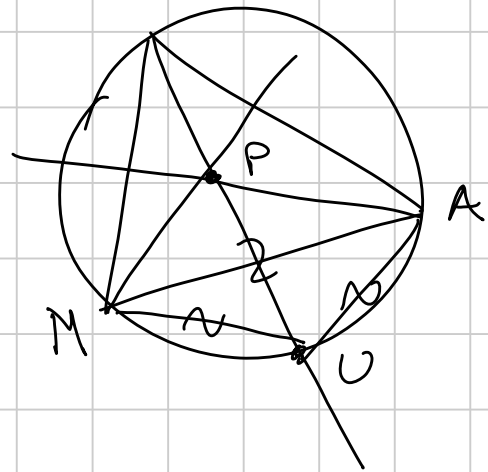
$$\angle UAM = \angle UMA = \hat{K}/2 = \angle VNC = \angle VCN \Rightarrow \triangle VNC \sim \triangle UMA$$

dato che $MA = NC \Rightarrow \triangle VNC \cong \triangle UMA$

$$UM = UA = UP$$

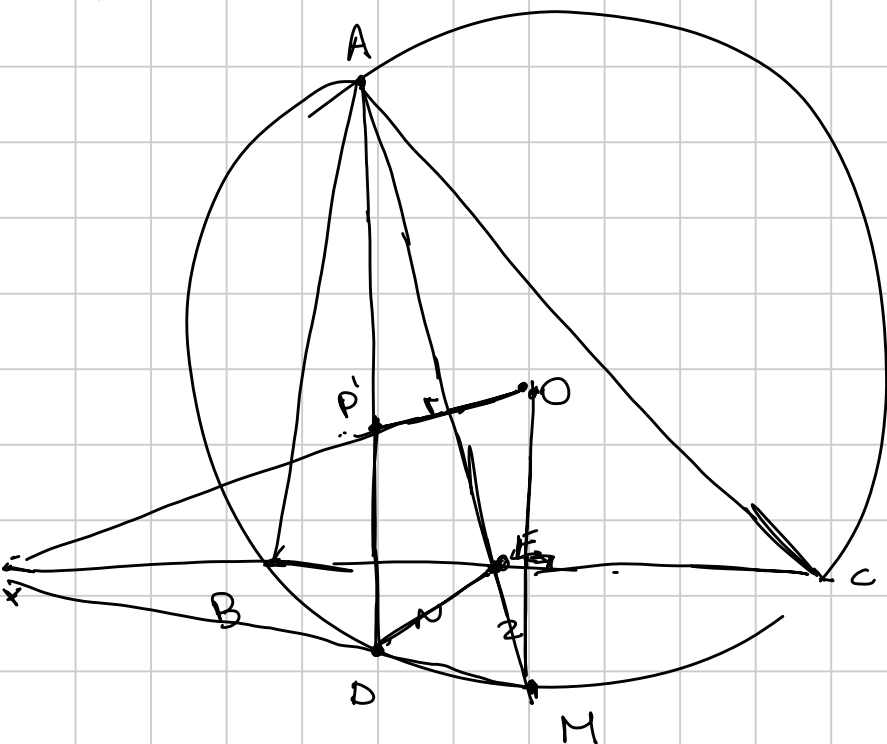
$$VN = VC = VQ$$

$$\text{Tesi } \Leftrightarrow RU = RV$$



$$\triangle RAM \cong \triangle RCN \Rightarrow \triangle RVN \cong \triangle RUN \Rightarrow RU = RN$$

Tesi : $OP \perp AM$



Claim P' resp. Q'
ipote.

$$\angle P'BA = \angle P'CA$$

$$X = DP' \cap BC$$

$$ME \perp OX, OE \perp DM$$

$OM \perp XE \Rightarrow E$ e l'ortoc. di ΔXOY

$\Rightarrow x_{DM}$ elevati

$$\angle XOE = \angle XME = \angle EDM \Rightarrow X, D, E, O \text{ cyclic}$$

$$\angle ADM = \beta + \alpha/2 = \angle AEC \Rightarrow P'ODM \text{ cyclic}$$

$$x_D \cdot x_M = x_{P^1} \cdot x_O$$

$$\parallel$$

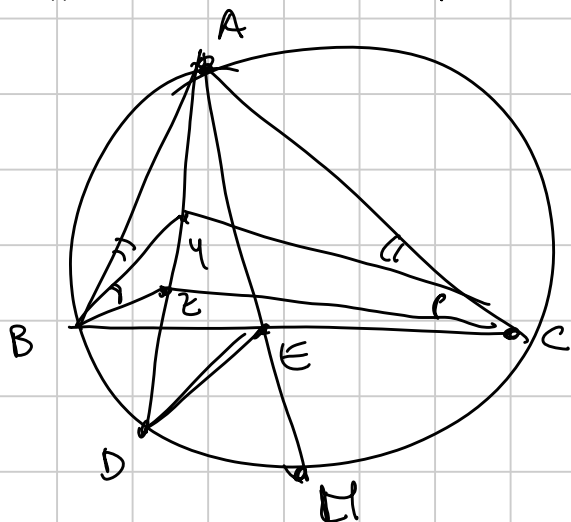
$$x_B \cdot x_C$$

$\Rightarrow P' O B C$ cyclic

$$\begin{aligned}\angle P'BA &= \beta - \angle P'BC = \beta - (180 - \angle P'OM) = \beta - (180 - \alpha - \angle P'OM) = \\ &= \angle P'OM - \gamma = \gamma + \alpha/2 - \gamma = \alpha/2\end{aligned}$$

analog $\angle P'CA = \alpha/2 \Rightarrow P'$ rispetta le ipotesi
 Supp che esistono due pt. che risp. le ipotesi

Supp che esistono due pt. che risp. h_1 ipotesi



$$\angle ABY = \angle ACC$$

$$\angle ABZ = \angle ACZ$$

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4A de colc.

$$\frac{zy}{\sin \angle ybz} = \frac{bz}{\sin \angle bzy}$$

$$\frac{YA}{\sin \angle ABY} = \frac{AB}{\sin \angle BYA}$$

