Theorem. Let $P$ is a point on the same plane with $\triangle ABC$ different from the circumcenter $O$. Let $\triangle A'B'C'$ be the antipedal triangle of $P$ with respect to $\triangle ABC$. Let $\vec{v} = 2\overrightarrow{OP}$. Let $A_1, B_1, C_1$ be respectively the points such that $\overrightarrow{A'A_1} = \overrightarrow{B'B_1} = \overrightarrow{C'C_1} = \vec{v}$.

Then three lines $AA_1, BB_1, CC_1$ are concurrent.