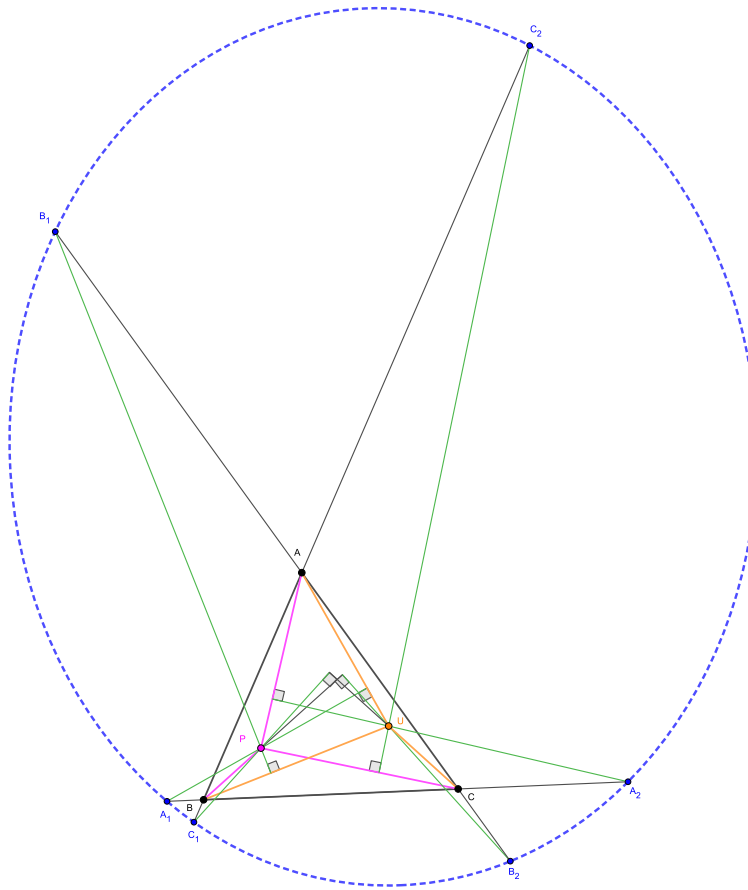


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Theorem. Consider $\triangle ABC$ and two points P, U . Let A_1, A_2 be two points on BC such that $PA_1 \perp UA$ and $UA_2 \perp PA$. Define B_1, B_2, C_1, C_2 cyclically. Then six points $A_1, A_2, B_1, B_2, C_1, C_2$ lie on the same conic.



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