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April 6, 2020

Theorem 1. Consider two different points $P, U$ on the same plane as $\triangle A B C$. Let $A_{0}$ be the intersection of lines $B C$ and $A U$. Let $A_{1}$ be the point of intersection, other than $P$, of line $P A$ and circle $(P B C)$. Let $A_{2}$ be the point, other than $A_{1}$, of line $A_{1} A_{0}$ and circle $\left(P B C A_{1}\right)$. Define $B_{2}, C_{2}$ cyclically.

Then $P, A_{2}, B_{2}, C_{2}$ are concyclic.


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