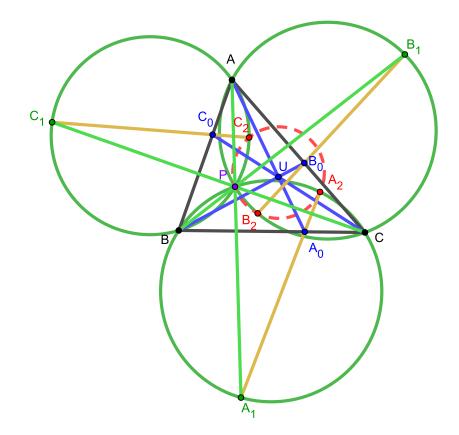
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April 6, 2020

Theorem 1. Consider two different points P, U on the same plane as $\triangle ABC$. Let A_0 be the intersection of lines BC and AU. Let A_1 be the point of intersection, other than P, of line PA and circle (PBC). Let A_2 be the point, other than A_1 , of line A_1A_0 and circle ($PBCA_1$). Define B_2, C_2 cyclically.

Then P, A_2, B_2, C_2 are concyclic.



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