Vu Thanh Tung

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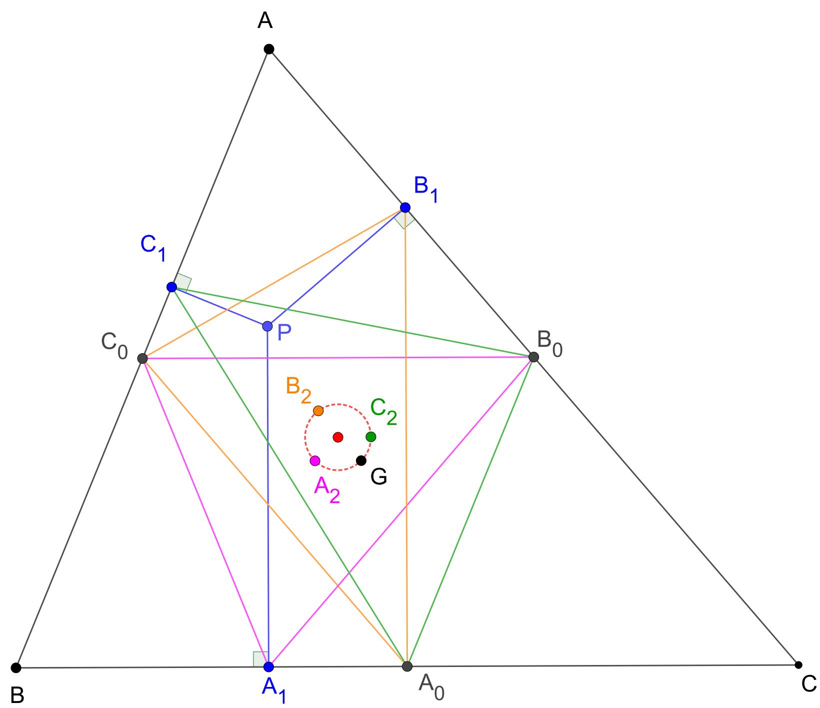
Theorem. *In the plane, consider $\triangle ABC$ with centroid G and medial triangle $\triangle A_0B_0C_0$. $\triangle A_1B_1C_1$ is the pedal triangle of a point P with respect to $\triangle ABC$. Let A_2, B_2, C_2 be respectively the centroid of $\triangle A_1B_0C_0, \triangle B_1A_0C_0, \triangle C_1A_0B_0$.*

Then four points G, A_2, B_2, C_2 are concyclic.



Vu Thanh Tung, 250 Quang Trung, Nam Dinh city, Vietnam
E-mail address: `tungvtt@gmail.com`