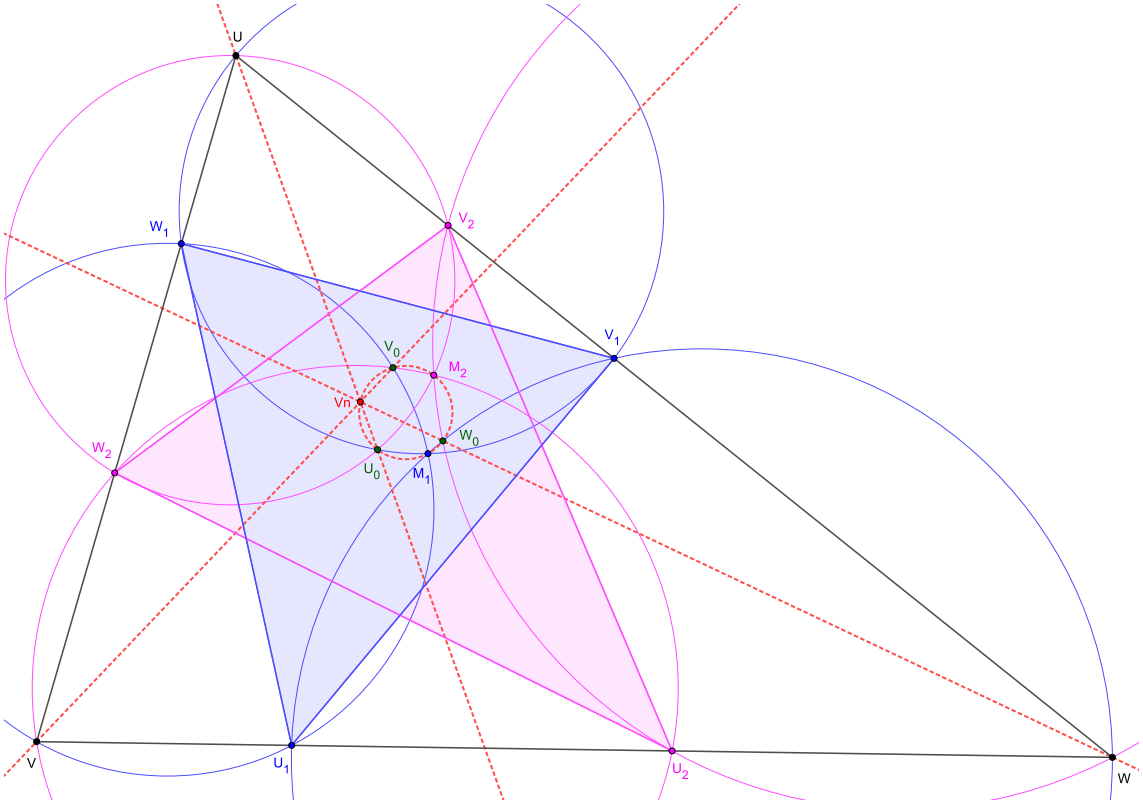
Vu Thanh Tung

July 4, 2020

Theorem. *Suppose that* $T_1 = U_1V_1W_1$ *and* $T_2 = U_2V_2W_2$ *are triangles and that* T_1 *is not perspective to* T_2*. Let* $T = UVW$ *be the vertex triangle of* T_1 *and* T_2*. Let* U_0 *be the point, other than* U*, that* (UV_1W_1) *and* (UV_2W_2) *intersect, and define* V_0, W_0 *cyclically. Let* M_1, M_2 *be respectively the Miquel point of* T_1 *and* T_2 *with respect to* T*, i.e.,* $M_1 = (UV_1W_1) \cap (VW_1U_1) \cap (WU_1V_1)$ *and* $M_2 = (UV_2W_2) \cap (VW_2U_2) \cap (WU_2V_2)$*. Let* Vn *be the Vietnamese point of* T_1 *and* T_2*. Then six points* $U_0, V_0, W_0, M_1, M_2, Vn$ *lie on a circle.*



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