Vu Thanh Tung

August 21, 2020

Theorem. Let $\triangle A_{1} B_{1} C_{1}$ be the circlecevian triangle of a point $P$ with respect to $\triangle A B C$. Let $A_{2}$ be the point, other than $A$, that circles $(A B C)$ and $\left(A B_{1} C_{1}\right)$ intersect and define $B_{2}, C_{2}$ cyclically. Let $A_{3}=B B_{2} \cap C C_{2}, B_{3}=C C_{2} \cap$ $A A_{2}, C_{3}=A A_{2} \cap B B_{2}$. Then $\triangle A_{3} B_{3} C_{3}$ and $\triangle A B C$ are perspective.


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

