

Problem 3
The Feuerbach Point is the Circumcenter of the Desmic Mate the Outer Yff Triangle

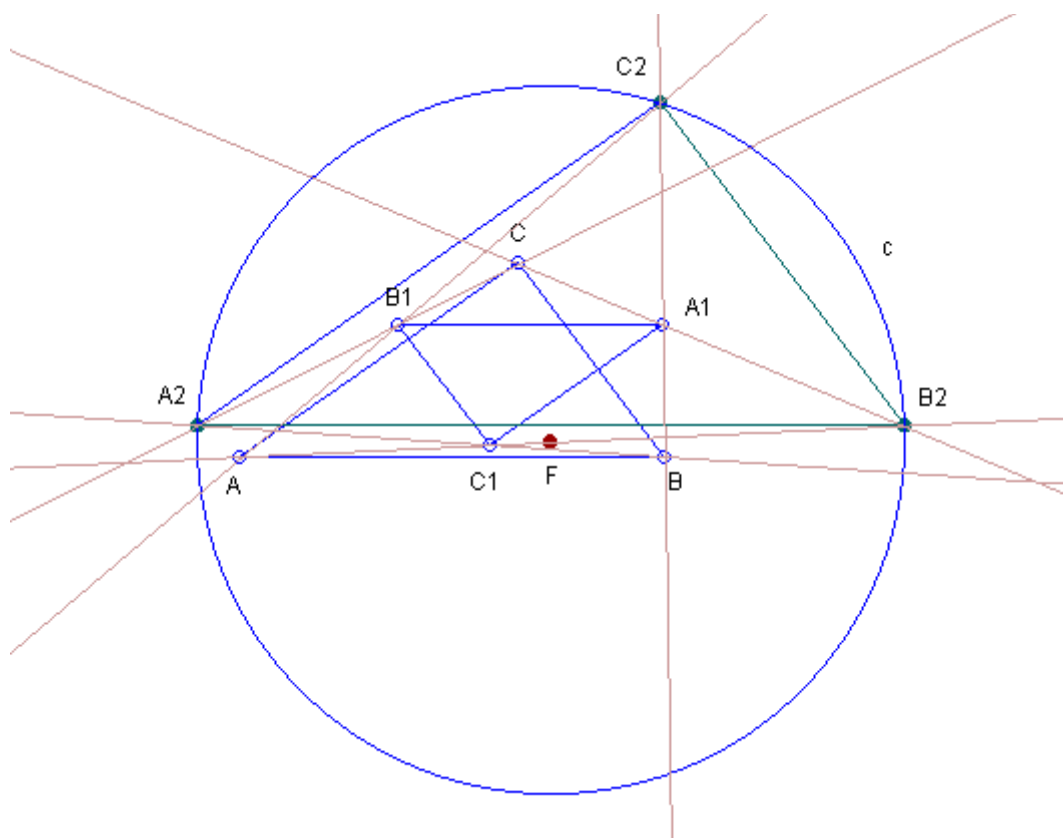
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Prove the following computer-generated theorem :

THEOREM. The Feuerbach Point is the Circumcenter of the Desmic Mate the Outer Yff Triangle.

The reader may find the definitions in [1-4].

See the Figure:



$A_1B_1C_1$ - Outer Yff Triangle;
 A_2 - intersection point of lines BC_1 and CB_1 ;

B_2 - intersection point of lines CA_1 and AC_1 ;
 C_2 - intersection point of lines AB_1 and BA_1 ;
 $A_2B_2C_2$ - Desmic Mate the Outer Yff Triangle;
circle c - Circumcircle of triangle $A_2B_2C_2$;
The Feuerbach Point F is the Circumcenter of the Desmic Mate the Outer Yff Triangle.

References

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