

Problem 19

The Feuerbach Point is the Perspector of the Incentral Triangle and the Feuerbach Triangle

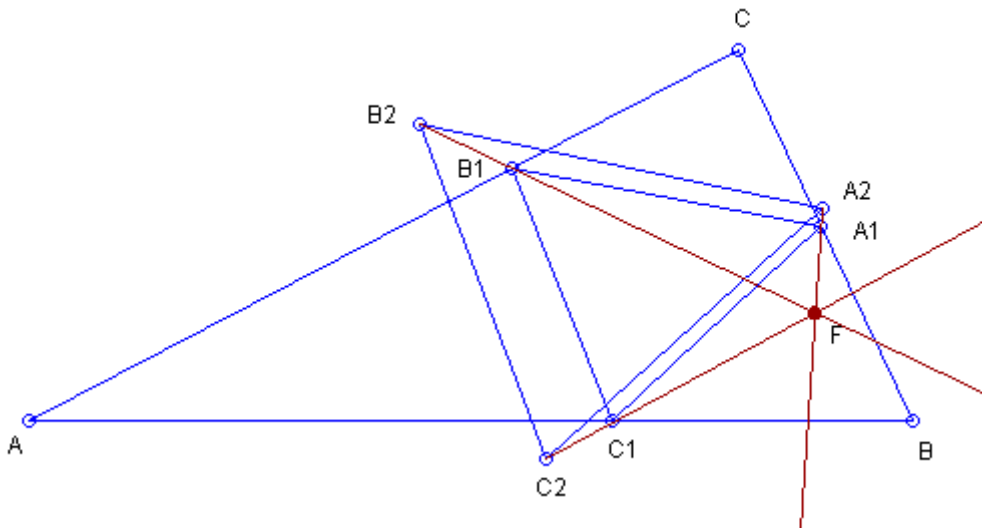
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Prove the following computer-generated theorem:

THEOREM. The Feuerbach Point is the Perspector of the Incentral Triangle and the Feuerbach Triangle.

The reader may find the definitions in [1-4]. For the definition of the Feuerbach Triangle see [2, Definitions, Triangles, Feuerbach Triangle].

See the Figure:



$A_1B_1C_1$ - Incentral Triangle;

$A_2B_2C_2$ - Feuerbach Triangle;

The lines A_1A_2 , B_1B_2 , and C_1C_2 concur at the Feuerbach Point F, that is, the Feuerbach Point is the Perspector of the Incentral Triangle and the Feuerbach Triangle.

References

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