

Problem 13

The Feuerbach Point lies on the Pedal Circle of the Gergonne Point

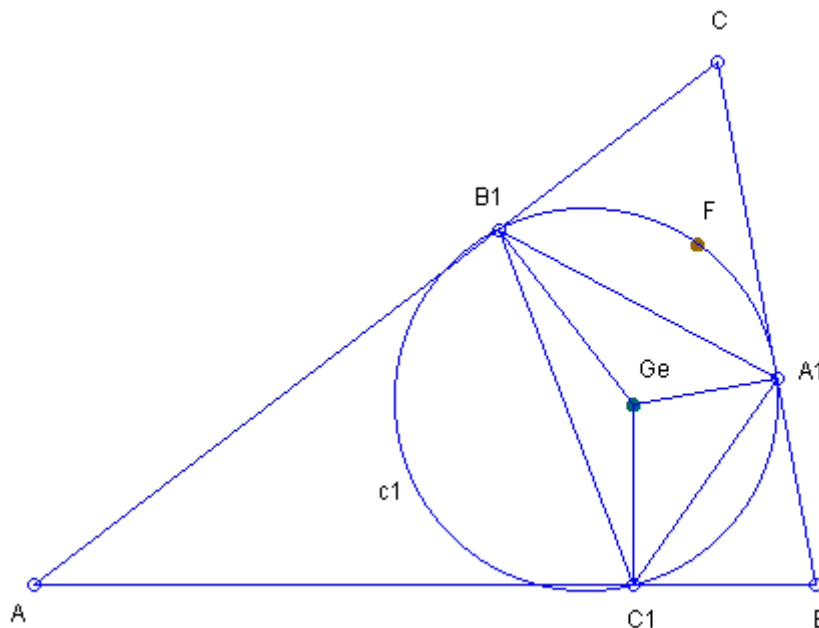
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Prove the following computer-generated theorem:

THEOREM. The Feuerbach Point lies on the Pedal Circle of the Gergonne Point.

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

See the Figure:



Ge - Gergonne Point;

$A_1B_1C_1$ - Pedal Triangle of the Gergonne Point;

circle c_1 - Pedal Circle of the Gergonne Point = Circumcircle of triangle $A_1B_1C_1$;

The Feuerbach Point F lies on the Pedal Circle of the Gergonne Point.

References

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