

Problem 15

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

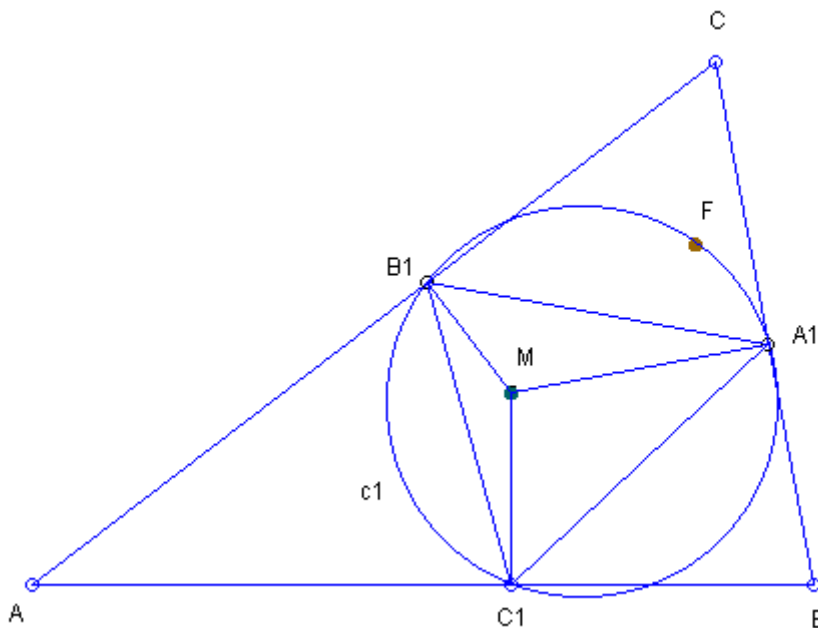
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Prove the following computer-generated theorem:

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

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

See the Figure:



M - Moses Point;

$A_1B_1C_1$ - Pedal Triangle of the Moses Point;

circle c1 - Pedal Circle of the Moses Point = Circumcircle of triangle $A_1B_1C_1$;

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

References

1. Quim Castellsaguer, The Triangles Web,
<http://www.xtec.es/~qcastell/ttw/ttweng/portada.html>
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3. D. Dekov, papers in this journal, 2006, 2007, 2008.
4. Eric W. Weisstein, MathWorld - A Wolfram Web Resource.
<http://mathworld.wolfram.com/>