

Problem 20
The Feuerbach Point is the Homothetic Center of the Johnson Triangle and the Outer Yff Triangle

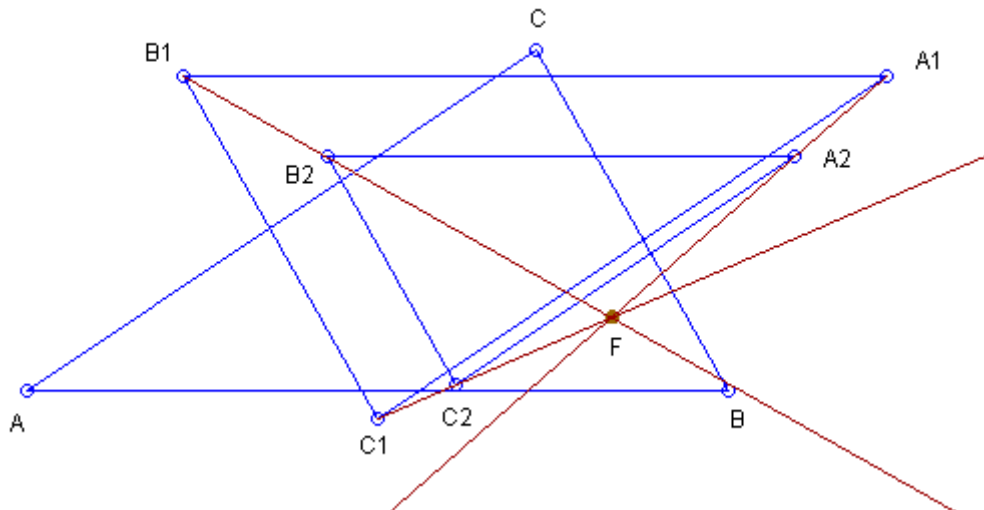
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Prove the following computer-generated theorem:

THEOREM. The Feuerbach Point is the Homothetic Center of the Johnson Triangle and the Outer Yff Triangle.

The reader may find the definitions in [4].

See the Figure:



$A_1B_1C_1$ - Johnson Triangle;

$A_2B_2C_2$ - Outer Yff Triangle;

The Feuerbach Point F is the Homothetic Center of the Johnson Triangle and the Outer Yff Triangle.

References

1. Quim Castellsaguer, The Triangles Web,
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3. D. Dekov, papers in this journal, 2006, 2007, 2008.
4. Eric W. Weisstein, MathWorld - A Wolfram Web Resource.
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