

### Problem 17

## The Feuerbach Point lies on the Pedal Circle of the Evans Perspector

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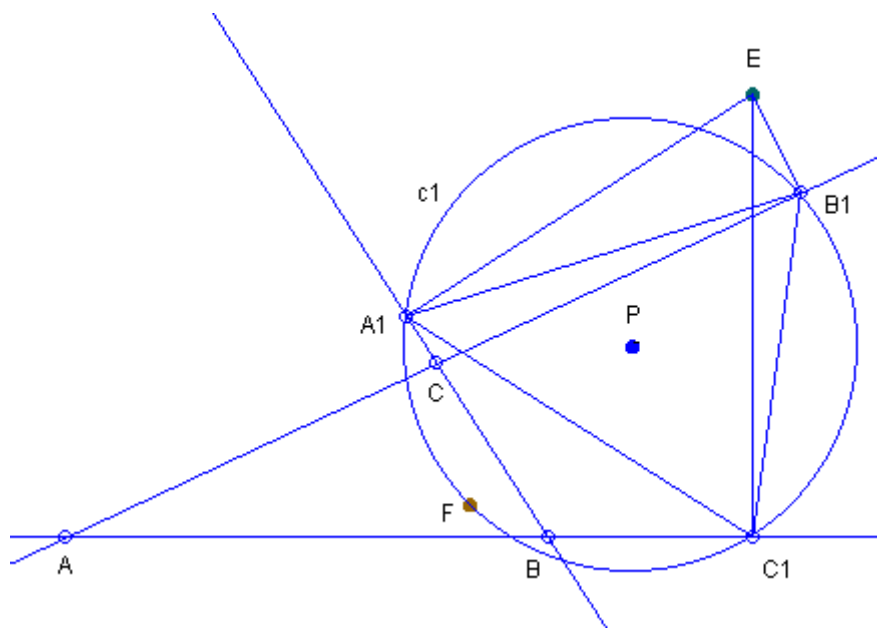
Prove the following computer-generated theorem:

**THEOREM.** The Feuerbach Point lies on the Pedal Circle of the Evans Perspector.

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

The *Evans Perspector* is the perspector of the Excentral and Reflection triangles.

See the Figure:



$E$  - Evans Perspector = perspector of the Excentral and Reflection triangles;  
 $A_1B_1C_1$  - Pedal Triangle of the Evans Perspector;  
circle  $c_1$  - Pedal Circle of the Evans Perspector = Circumcircle of triangle  $A_1B_1C_1$ ;  
 $P$  - Center of the Pedal Circle of the Evans Perspector;  
The Feuerbach Point  $F$  lies on the Pedal Circle of the Evans Perspector.

## References

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