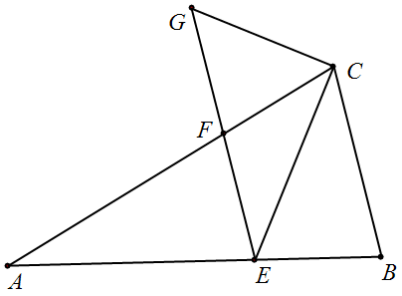

Example 1 77 : As shown in Figure 1 , *in* △ABC, *the* bisector of ∠C intersects *AB* at *E*, *the* parallel line drawn from *E* to *BC intersects AC* at *F*, *and the* bisector of the exterior angle of ∠C intersects at *G*, then E *F* = *FG*.

Proof: Suppose $A=0$, $E=kB$, $F=kC$, $G=2F-E$, $\dfrac{\dfrac{C-G}{B-C}}{\dfrac{C-A}{C-G}}+\dfrac{\dfrac{C-E}{C-A}}{\dfrac{C-B}{C-E}}=4k-4k^2$.

C is the origin