Mth-4111 In the figure below, points E, F, G, and H are the midpoints of the sides on which they are located. Use analytical geometry to prove that segments EF and GH are parallel.

Hypothesis:	(p,q)
E and F are midpoints	(0,n)
G and H are midpoints	E
Conclusion to prove:	(0,0) H $(m,0)$
Segment EF is parallel to segment GF	1 .

Statements	Justifications