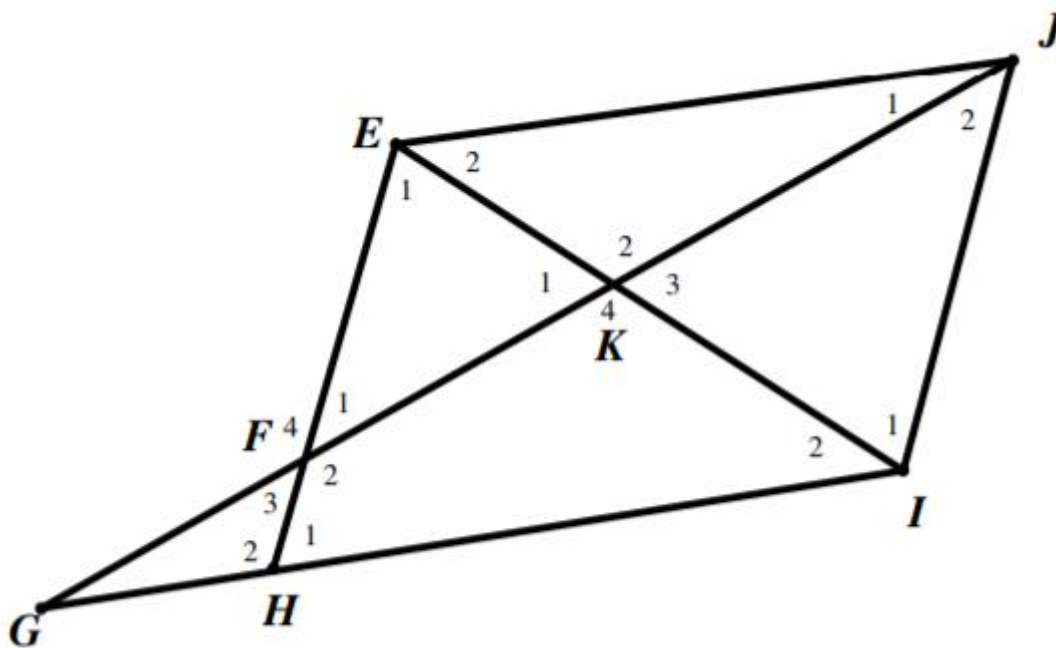




Euclidean Geometry Example:

In the diagram below: EHIJ is a parallelogram. F is on EH. JF produced meets IH produced at G. FJ intersects EI at K.



Prove:

(1) $\frac{JK}{KF} = \frac{IK}{KE}$ (3)

(2) $\triangle GKI \parallel \triangle JKE$ (3)

(3) $JK^2 = KF.KG$ (4)