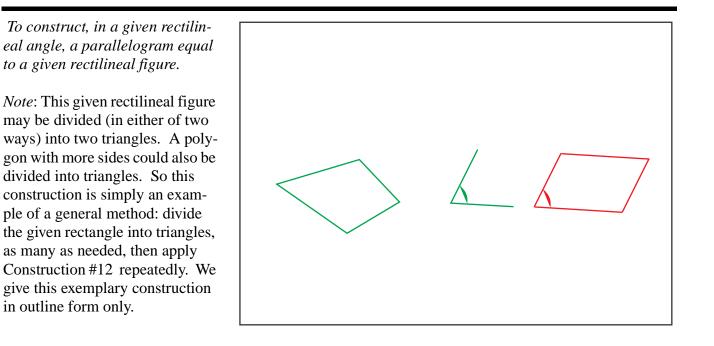
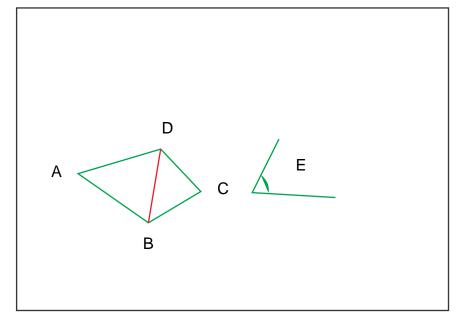
Construction 13: Book I, Proposition 45

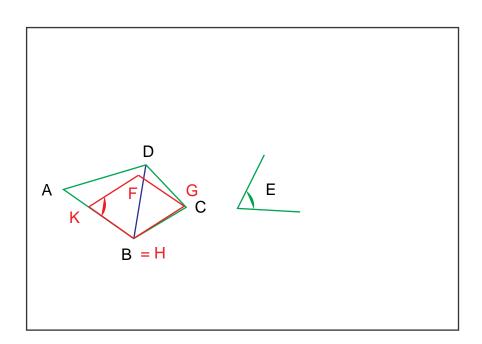


I.45:3. Let ABCD be the given rectilineal figure, and E the given rectilineal angle;

I.45:7 Let DB be joined,

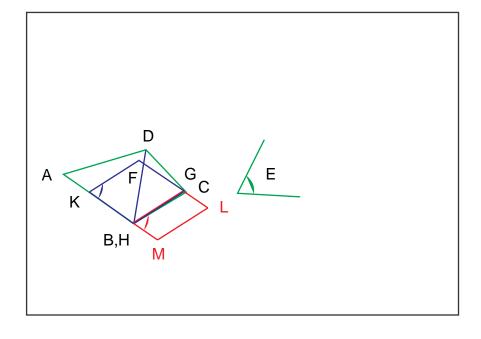


I.45:7. and let the parallelogram FH be constructed equal to the triangle ABD, in the angle HKF which is equal to E; [I.42] (22 steps, omitted)



I.45:10. let the parallelogram GM equal to the triangle DBC be applied to the straight line GH, in the angle GHM which is equal to E. [I.44] (36 steps, omitted)

Note: HM is AB prolonged.



I.47:47. Therefore the parallelogram KFLM has been constructed equal to the given rectilineal figure ABCD, in the angle FKM which is equal to the given angle E.

Q.E.F.

