

[Prop. 1.29]. Thus, (the sum of) BHG and GFE is less than two right-angles. And (straight-lines) produced to infinity from (internal angles whose sum is) less than two right-angles meet together [Post. 5]. Thus, being produced, HB and FE will meet together. Let them have been produced, and let them meet together at K . And let KL have been drawn through point K parallel to either of EA or FH [Prop. 1.31]. And let HA and GB have been produced to points L and M (respectively). Thus, $HLKF$ is a parallelogram, and HK its diagonal. And AG and ME (are) parallelograms, and LB and BF the so-called complements, about HK . Thus, LB is equal to BF [Prop. 1.43]. But, BF is equal to triangle C . Thus, LB is also equal to C . Also, since angle GBE is equal to ABM [Prop. 1.15], but GBE is equal to D , ABM is thus also equal to angle D .

Thus, the parallelogram LB , equal to the given triangle C , has been applied to the given straight-line AB in the angle ABM , which is equal to D . (Which is) the very thing it was required to do.