

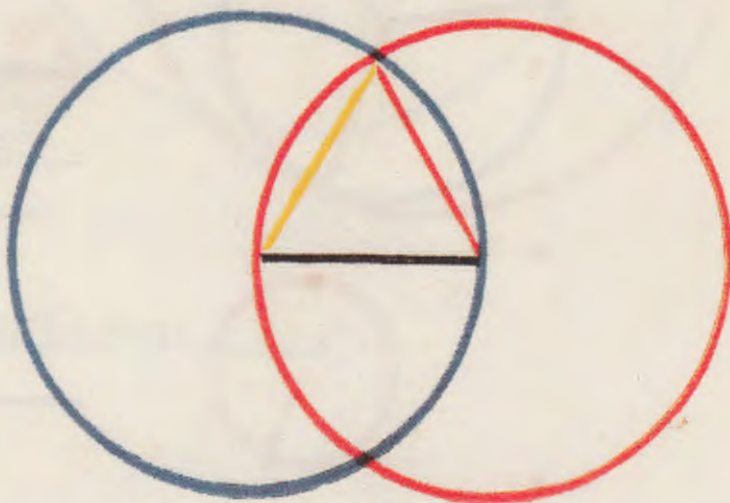






# Euclid.


## BOOK I.


### PROPOSITION I. PROBLEM.

**Q**UONIAM *IN* a given finite straight line (—) to describe an equilateral triangle.




Describe  and  (postulate 3.); draw  and  (post. 1.).

then will  be equilateral.

For — =  (def. 15.);

and — =  (def. 15.),

∴  =  (axiom. 1.);


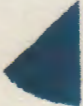

and therefore  is the equilateral triangle required.


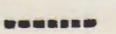
Q. E. D.








*To bisect a given finite straight line (—————).*

Construct  (pr. 1.),

draw , making  =  (pr. 9.).

Then  =  by (pr. 4.),

for  =  (const.)  = 

and  common to the two triangles.

Therefore the given line is bisected.

Q. E. D.