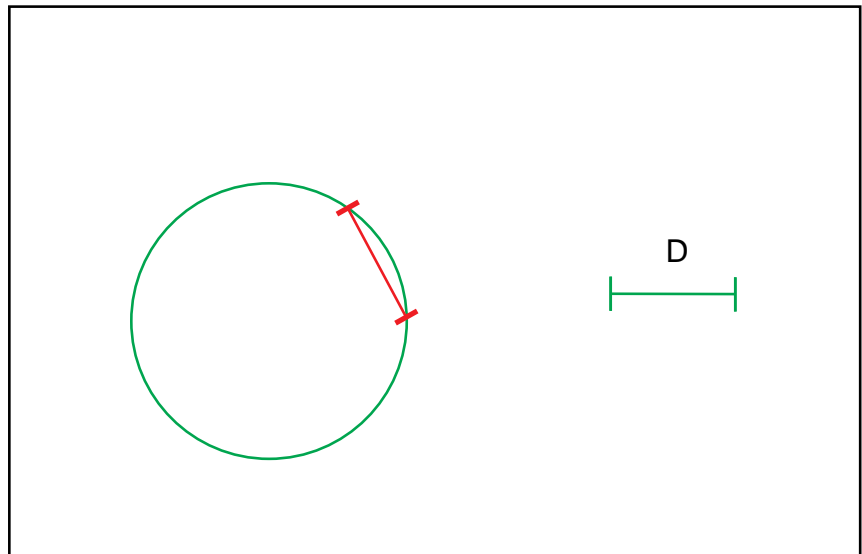


## Construction 23: Book IV, Proposition 1

*Into a given circle to fit a straight line equal to a given straight line which is not greater than the diameter of the circle.*

We will consider only the case in which the given straight line is less than the diameter of the given circle.



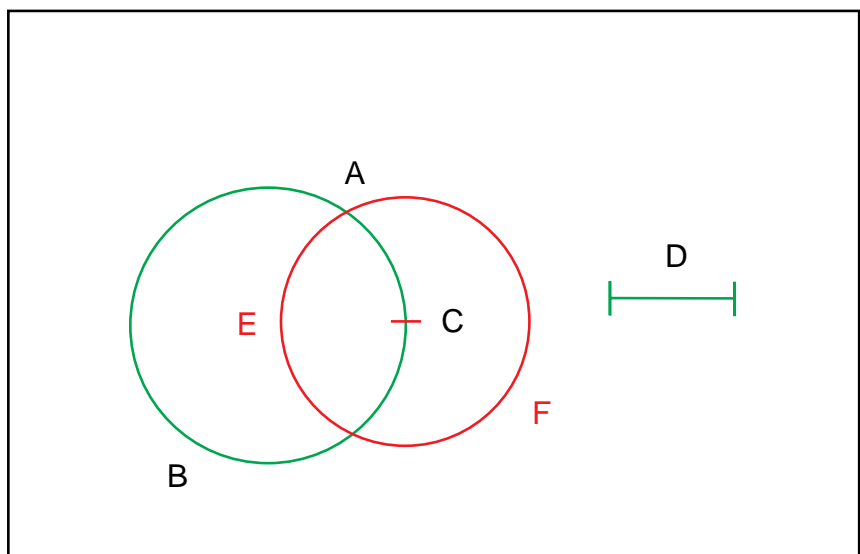
IV.1:4. Let ABC be the given circle, and D the given straight line...;

IV.1:17. (paraphrase)

With centre C and distance D let the circle EAF be described;

*Note:* we set the compass and move it. Euclid would not.

IV.1:19. let CA be joined.



Q.E.F.

