## Construction 5B: Book I, Proposition 10

## Alternate Construction

This is a shorter alternative to C\#5, the construction of Euclid.

To bisect a given finite straight line.

I.10:2. Let AB be the given finite straight line.
I.10:4. Let the equilateral triangle ABC be constructed on it, [I.1] GOSUB I.1.
NOTE: Only the points C, C' are actually wanted.
I.1:7. With centre A and distance AB let the circle BCD be described; [Post. 3]
I.1:10. again, with centre B and distance BA let the circle ACE be described; [Post.3] Here, at the Vesica Piscus, is where we depart from C\#5A.


C'

WANTED

Connect the two crossing points and mark the point D on AB .


## Q.E.F.



