Euclid's Elements Of Geometry

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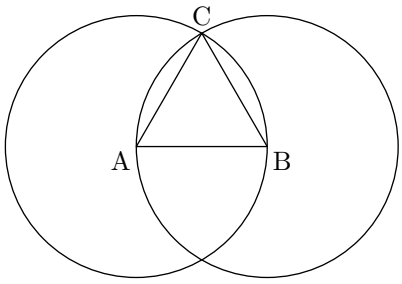
Book 1

Proposition 1

To construct an equilateral triangle on a given finite straight-line.



Let AB be the given finite straight line.

So it is required to contruct an equilateral triangle on the straight-line AB.

Let the circle BCD with center A and radius AB have been drawn, and again let the circle ACE with center B and radius BA have been drawn. And let the straight-lines CA and CB have been joined from the point C, where the circles cut one another, to the points A and B (repsectively). $\square$