To construct an equilateral triangle on a given finite straight line.Let AB be the given finite straight line. It is required to construct an equilateral triangle on the straight line AB.

Proposition I

 F_{i}

the straight lines CA and CB from the point C at which the circles cut one another to the points A and B. Now, since the point A is the center of the circle CDB, therefore AC equals AB. Again, since the point B is the center of

Describe the circle BCD with center A and radius AB. Again

describe the circle ACE with center B and radius BA. Join

the triangle ABC is equilateral, and it has been constructed

the circle CAE, therefore BC equals BA. But AC was proved equal to AB, therefore each of the straight lines AC and BCequals AB. And things which equal the same thing also equal one another, therefore AC also equals BC. Therefore the three

straight lines AC, AB, and BC equal one another. Therefore

on the given finite straight line AB.