

Lesson 4: Proposition 1.2

Proposition 1.2 (Problem): From a given point, draw a straight line equal to a given finite straight line.

Given: A finite straight line and a point.

Construct: A straight line on the given point.

Show: The two straight lines are equal.

Let A be the given point and \overline{BC} the given straight line.

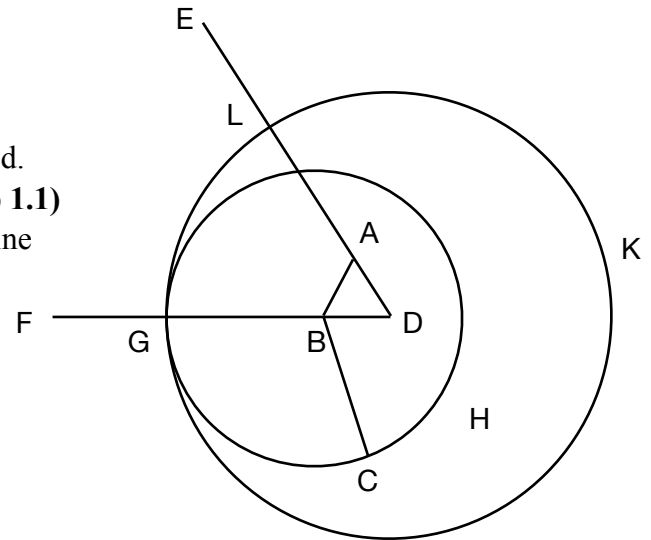
From point A to point B , let the straight line \overline{AB} be joined.

Construct an equilateral triangle DAB on line \overline{AB} . **(Prop 1.1)**

Let the straight lines \overline{AE} , \overline{BF} be produced in a straight line with \overline{DA} , \overline{DB} . **(P2)**

With center B and distance BC , let the circle CGH be constructed. **(P3)**

With center D and distance DG , let the circle GKL be constructed. **(P3)**



[illegible]