

Constructing the Set of Points a Fixed Distance From a Given Line

To construct the set of points a fixed distance x from a line AB , with a set of compasses draw circles of radius x with centres at A and B , then draw tangents from one circle to another, parallel to the line.

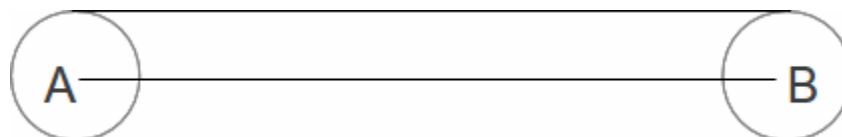
For example, construct the set of points 2 cm from the line AB below.



Use a compass to draw circles of radius 2 cm with centres at A and B .



Draw tangent lines from the circle at A to the circle at B .



The outside contour is the set of points required.