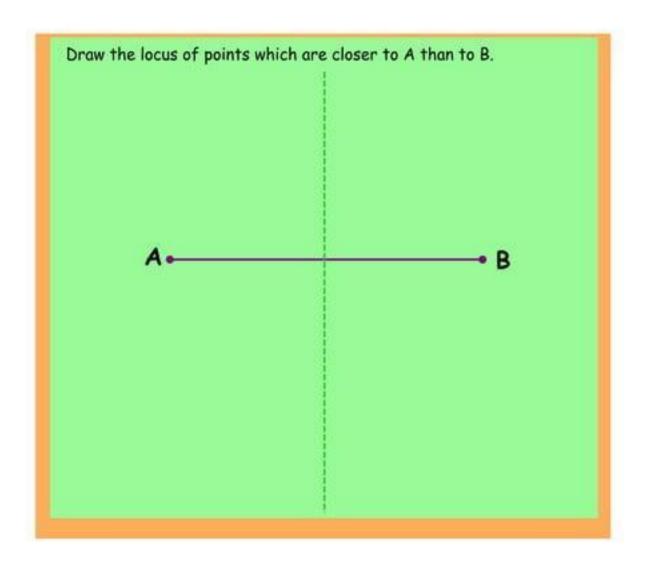
Locus

By the end of the lesson you will be able to:

- Draw the perpendicular bisector of a segment and bisectors of angles using ruler and compasses.
- Understand, identify and draw locus of points.

Mark all the points that are at the same distance from A and B. 0 Mediatriz 2.ggb Conclusion: The set of all the points equidistant from the end points of a line segment is the perpendicular bisector of the segment.

How to draw the perpendicular bisector of a segment O The locus of a point is the path traced out by the point as it moves. The locus of a point is the path traced out by the point as it moves. The locus of points which are equidistant from two given points A and B is the perpendicular bisector of the segment AB A locus is a set of points which fit a condition.



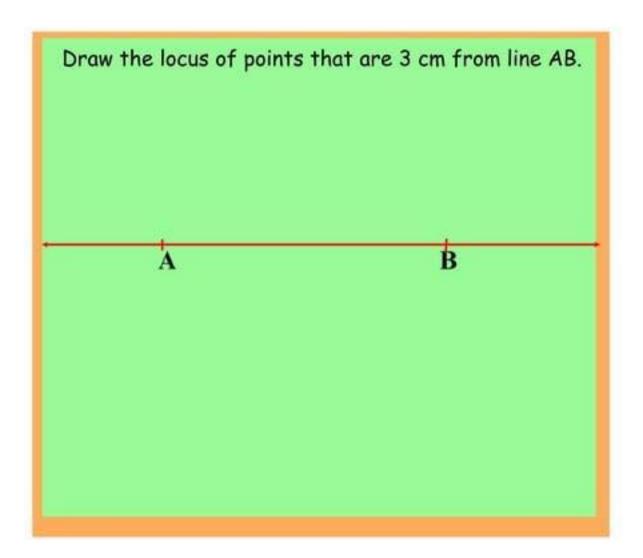
Draw the locus of points which are at 3 cm from P

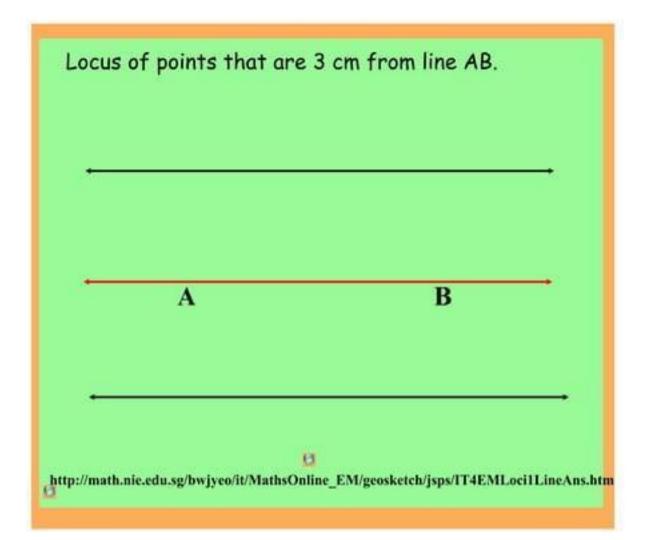
II

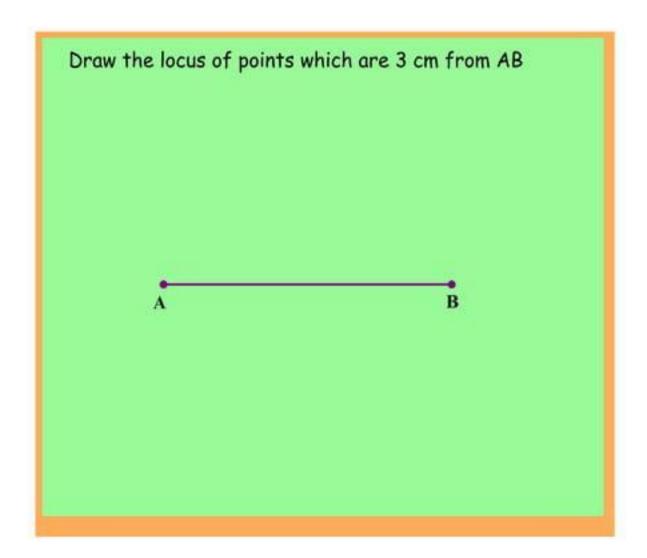
Draw all the points which are at 3 cm from P

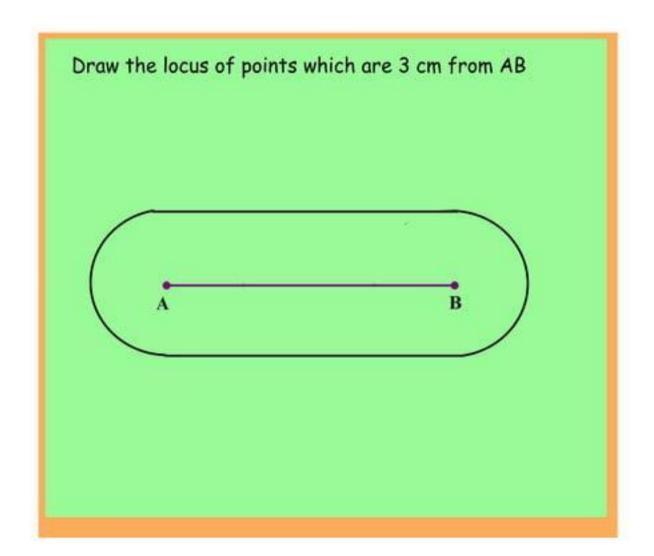
• P

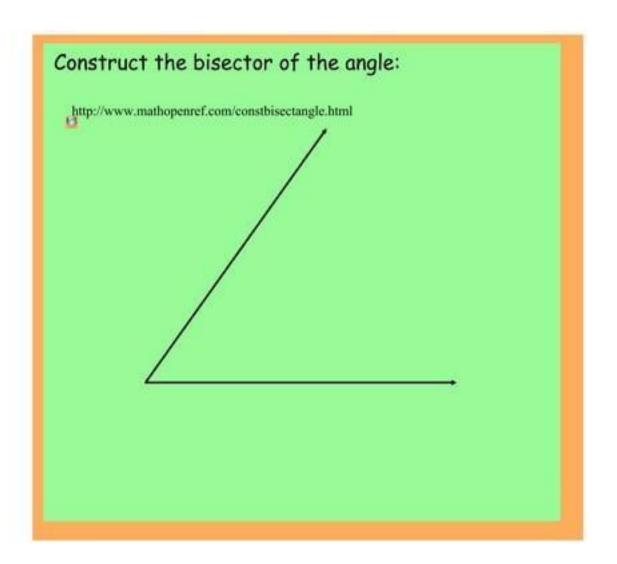
The locus of the points whose distance to a fixed point P is constant is the circumference of centre P.



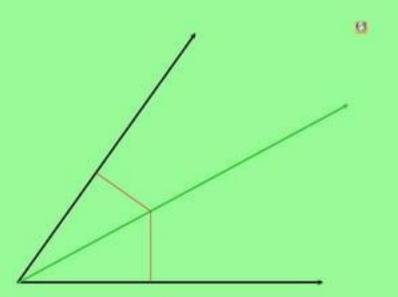




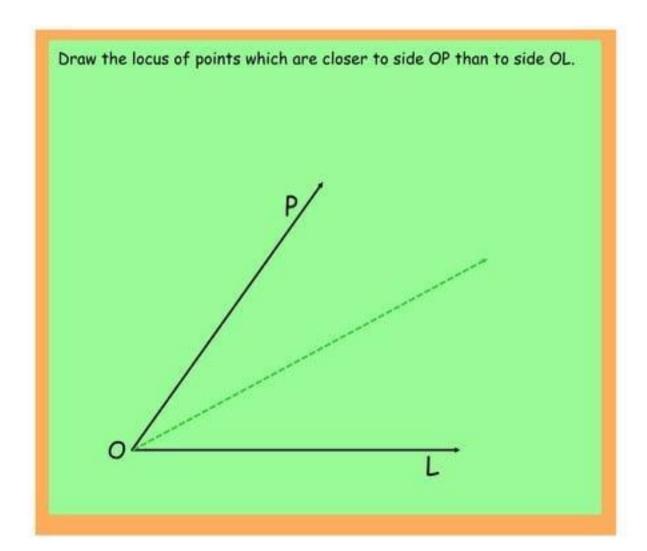


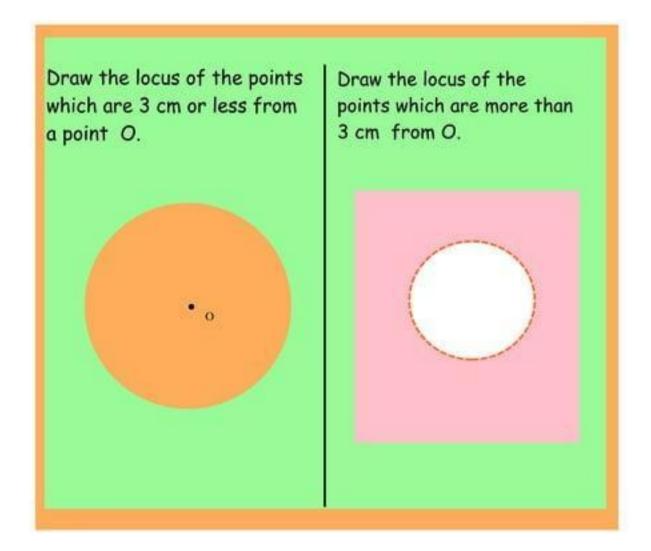


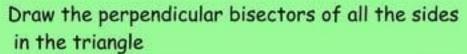
The points on the bisector of the angle are at the same distance from both arms of the angle.

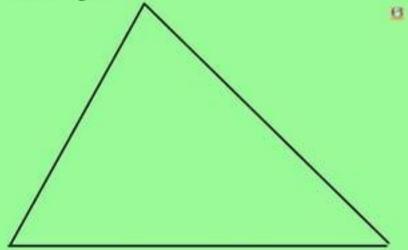


The locus of all the points which are <u>equidistant</u> from the sides of an <u>angle</u> is the bisector of the angle







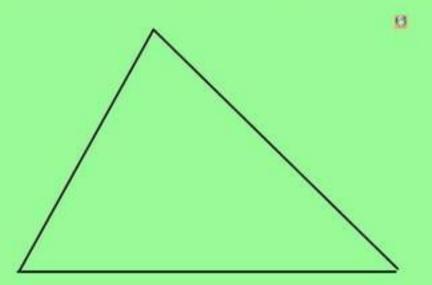


The perpendicular bisectors of the sides of a triangle meet at a point called the circumcentre.

The circumcentre is at the same distance from each vertex.

The circumcentre is the centre of a circumference that passes through the three vertices.

Draw all the bisectors of the angles of the triangle



The bisectors of the angles of a triangle meet at a point called the incentre.

The incentre is at the same distance from each side of the triangle.

The incentre is the centre of a circunference that touches the three sides of the triangle.

Locus.ppt

Worksheet LOCI.doc

Circumscribed.ppt

Perpendicular bisector.ggb

Mediatriz 2.ggb

Circumference Locus.ggb