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## 28. Constructions

## **Basic loci**

The path of a point in motion is defined as its locus.

Let us consider the 4 basic loci.

1. The locus of a point moving at a constant distance from a fixed point is a circle.



**2.** The locus of a point moving at an equal distance from two fixed points is the perpendicular bisector of the straight line joining the two points.



**3.** The locus of a point moving at a constant distance from a given straight line is a line parallel to the given straight line, at the given constant distance from the straight line, which may lie on either side of the straight line.





4. The locus of a point moving at an equal distance from two intersecting straight lines is a bisector of the angle formed at the intersection point of the lines.



• Answer all the questions in 28.1 exercise of 115,116 pages in your text book.