

Circles

Handout -1

1. A circle is a closed figure in a plane and it is the collection of all the points in the plane which are at a constant distance from a fixed point in the plane. The fixed point is the centre of the circle and the constant distance is the radius of the circle.
2. Circumference of a circle is the length of the complete circular curve constituting the circle.
3. Chord of a circle is a line segment joining any two points on the circle.
4. Any two points A and B of a circle divide the circle into two parts. The smaller part is called the minor arc and the larger part is called the major arc of the circle. If the two parts are equal, AB is a diameter of the circle and each part is called a semi circle.
5. A chord of a circle divides the circular region into two parts. The smaller part is known as the minor segment and the larger part is known as the major segment .
If the chord is a diameter, then the two segments are equal and each part is called a semi circular region.
6. The region between an arc and two radii joining the centre to the end points of the arc is called a sector.
Two radii of a circle divide the circular region into two parts. The smaller part is known as the minor sector and the larger part is known as the major sector.
7. Equal chords of a circle subtend equal angles at the centre.
8. If the angles subtended by the chords of a circle at the centre are equal, then the chords are equal.
