

Exercise 10.1

1. Fill in the blanks :-

(i) The centre of a circle lies in interior of the circle.

(ii) A point, whose distance from the centre of a circle is greater than its radius lies in exterior of the circle.

(iii) The longest chord of a circle is a diameter of the circle.

(iv) An arc is a semi-circle when its ends are the ends of diameter.

(v) Segment of a circle is the region between an arc & chord of the circle.

(vi) A circle divides the plane, on which it lies in three parts.

2. Write True or False :-

(i) True, because all points on the circle are equidistant from the centre of the circle & this equal distance is called radius of the circle.

(ii) False, because in circle infinitely many equal chords can be drawn.

(iii) False, because all three areas are equal & there is no difference between major & minor arc.

III) False, because the sector is a region between two radii & an arc

IV) True, by the definition of diameter & it is twice the radius of circle

V) True, because circle is a 2D figure & it can also be represented as plane figure