

Ex - 10.1

Q1. Fill in the blanks

- (i) The centre of a circle lies in of the circle. (exterior, interior)
- (ii) A point, whose distance from the centre of a circle is greater than its radius lies in.....of the circle. (exterior/interior)
- (iii) The longest chord of a circle is a.....of the circle.
- (iv) An arc is a.....when its ends are the ends of a diameter.
- (v) Segment of a circle is the region between an arc and.....of the circle.
- (vi) A circle divides the plane, on which it lies, in parts.

Sol. (i) Interior (ii) Exterior (iii) Diameter
(iv) Semicircle (v) The chord (vi) Three

Q2. Write true or false : Give reasons for your answers.

- (i) Line segment joining the centre to any point on the circle is a radius of the circle.
- (ii) A circle has only finite number of equal chords.
- (iii) If a circle is divided into three equal arcs, each is a major arc.
- (iv) A chord of a circle, which is twice as long as its radius, is a diameter of the circle.
- (v) Sector is the region between the chord and its corresponding arc.
- (vi) A circle is a plane figure.

Sol. (i) True (ii) False (iii) False
(iv) True (v) False (vi) True