

Exercise-10.1**1. Fill in the blanks:**

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

Ans. (i) interior

(ii) exterior

(iii) diameter

(iv) semi-circle

(v) the chord

(vi) three

2. Write True or False:

- (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.**

Ans. (i) True

(ii) False

(iii) False

(iv) True

(v) False

(vi) True



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