

CIRCLES

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 ~~circle~~ 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 a diameter.
 - v) Segment of a circle is the region between an arc and chord of the circle.
 - vi) A circle divides the plane, on which it lies, in three parts.

2. 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. True
- ii) A circle has only finite number of equal chords. False
- iii) If a circle is divided into three equal arcs, each is a major arc. False
- iv) A chord of a circle, which is twice as long as its radius, is a diameter of the circle. True
- v) Sector is the region between the chord and its corresponding arc. False
- vi) A circle is a plane figure. True