

CirclesEu-10.1

(1) fill in the blanks:-

- (i) The center of a circle lies in interior of the circle.
- (ii) A point, whose distance from the center 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 semicircle 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 center to any point on the circle is a radius is a dia.~~
- (ii) line segment joining the center to any point on the circle is a radius of the circle. (T)
- (iii) A circle has only finite number of equal chords. (F)

- (iv) If a circle ~~base~~ ~~only~~ is divided ~~in~~ to three equal arcs, each is a major arc. (F)
- (v) A chord of a circle, which is twice as long as its radius, is a diameter of the circle. (T)
- (vi) Sector is the region between the chord and its corresponding arc. (F)
- (vii) A circle is a plane figure. (T)