

TRIGONOMETRIC FUNCTIONS**INTRODUCTION OF TRIGONOMETRY FUNCTIONS****EXERCISE**

- Q.1** If the initial side is overlapping on the terminal side, then angle is _____
(a) 0° (b) 180°
(c) 90° (d) 270°
- Q.2** If we start to rotate and after completing one revolution again initial side overlap with terminal side, then the angle formed is _____
(a) 0° (b) 180°
(c) 90° (d) 360°
- Q.3** 1 radian is _____
(a) $54^\circ 48'$ (b) $57^\circ 16'$
(c) 180° (d) $17^\circ 46'$
- Q.4** 1 degree is _____ radian.
(a) π (b) 0.046
(c) 0.1746 (d) 0.01746
- Q.5** 4 radians = _____
(a) 720° (b) $240^\circ 51' 53''$
(c) $229^\circ 10' 59''$ (d) $233^\circ 11' 48''$
- Q.6** If angle of arc is 60° and the length of arc is 20 cm. Find the radius of the circle from which arc is intercepted.
(a) 18.08 cm (b) 17.07 cm
(c) 19.09 cm (d) 18 cm

- Q.7** If length of arc is 40 cm and radius of circle of arc is 10 cm then find the angle made by the arc.
(a) 720° (b) $240^\circ 51' 53''$
(c) $229^\circ 10' 59''$ (d) $233^\circ 11' 48''$
- Q.8** The second hand of the watch is 2 cm long. How far the tip will move in 40 seconds?
(a) 6.28 cm (b) 12.56 cm
(c) 3.14 cm (d) 1.57 cm
- Q.9** If in two circles, arcs of the same length subtend angles 45° and 60° at Centre, find the ratio of their radii.
(a) 2:3 (b) 2:5
(c) 3:4 (d) 4:3
- Q.10** If minute hand covers 24 cm length in 30 minutes, then how much length minute hand have?
(a) 19.1 cm (b) 38.2 cm
(c) 57.3 cm (d) 45 cm

ANSWER KEY

1. (a)
2. (d)
3. (b)
4. (d)
5. (c)
6. (c)
7. (c)
8. (b)
9. (d)
10. (b)