

NCERT EXEMPLAR SELECTED PROBLEMS :

PROBLEM 2

Q39. Which of the following is correct?

- (a) $\sin 1^\circ > \sin 1$
- (b) $\sin 1^\circ < \sin 1$
- (c) $\sin 1^\circ = \sin 1$
- (d) $\sin 1^\circ = \pi/18^\circ \sin 1$

Sol: We know that, in first quadrant if θ is increasing, then $\sin \theta$ is also increasing.
 $\therefore \sin 1^\circ < \sin 1$ [$\because 1 \text{ radian} = 57^\circ 30'$]