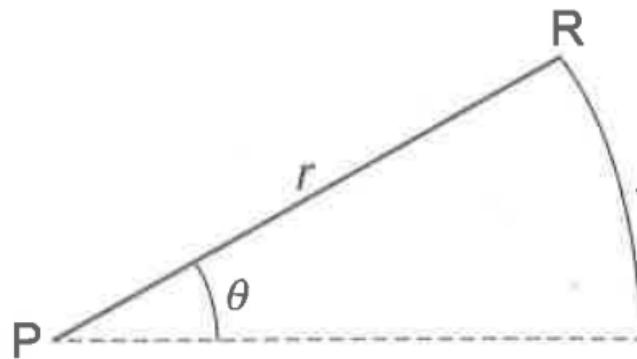


17 A rod PR of length  $r$  is turned about the point P through an angle  $\theta$ .



The end R of the rod moves through a distance  $s$  along the arc of the circle of radius  $r$ . Both  $s$  and  $r$  are measured in metres.

What is the angle  $\theta$ , expressed in radians?

- A  $s/r$
- B  $360s/2\pi r$
- C  $r/s$
- D  $2\pi r/360s$

18 An oscillating pendulum bob of mass  $m$  and weight  $W$  is supported by a string of length  $r$ .