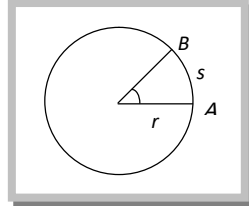


Relation between an Arc and an Angle.

If s is the length of an arc of a circle of radius r , then the angle θ (in radians) subtended by this arc at the centre of the circle is given by $\theta = \frac{s}{r}$ or $s = r\theta$ i.e., arc = radius \times angle in radians

Sectorial area: Let OAB be a sector having central angle θ^C and radius r . Then area of the sector OAB is given by $\frac{1}{2}r^2\theta$.



Important Tips

- ☞ The angle between two consecutive digits in a clock is 30° ($= \pi/6$ radians). The hour hand rotates through an angle of 30° in one hour.
- ☞ The minute hand rotates through an angle of 6° in one minute.