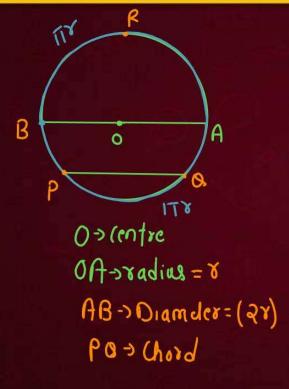
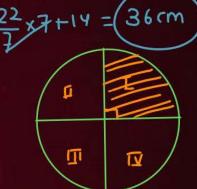


Terms Related to Circles







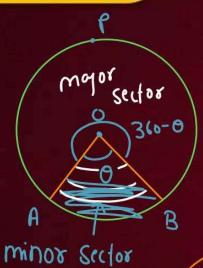


MY+28



All Formulas





length of an arc =

H Place of mojor segment = Area of circle-Area of minor syment







The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 5 minutes.



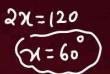
Area of sector=
$$\frac{0}{360}$$
 is $\frac{2}{3}$ $\times \frac{22}{7} \times \frac{14}{4} \times \frac{14}{3} = \frac{154}{3} \text{ cm}^2$
12





INAAOB

7+7+60=180 27=180-60



AoBisan
equilateral A



In a circle of radius 7 cm, an arc subtends an angle of 60° at the centre. Find:

(i) The length of the arc

(ii) Area of the sector formed by the arc



(iii) Area of the segment formed by the corresponding chord

(i) length of an ax =
$$\frac{9}{360}$$
 x $\frac{3}{7}$ x $\frac{22}{7}$ x $\frac{7}{3}$ $\frac{3}{8}$ $\frac{3}{8}$

H Arca of minor segment =

Area of sector- ar of A AOB

QUESTION



ISm

A horse is tied to a peg at one corner of a square shaped grass field of side 15 m by means of a 5 m long rope (see given figure). Find

The area of the part of the field in which the horse can graze.

Required area = $\frac{0}{360}$ Fir² y = 5m $= \frac{90}{360} \times 3.14 \times 5.85$ $= \frac{1}{4} \times 3.14 \times 5$