

Excercise

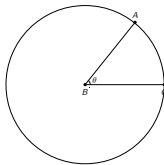
Pratibha

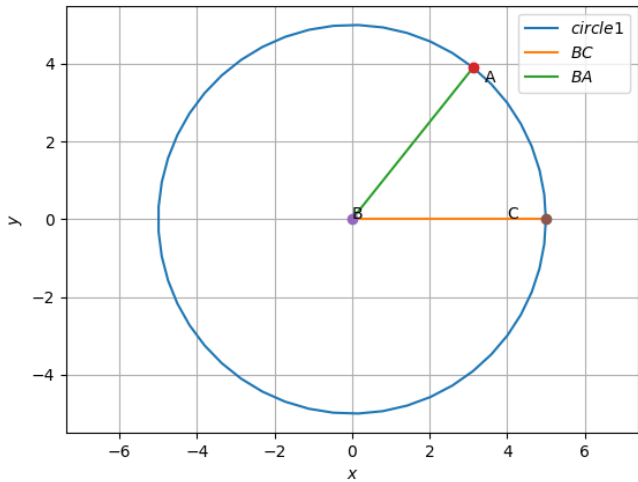
3 Jan 2020

Miscellaneous Exercises

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

• **Solution :**





In 60 minutes minute hand covers 360°

For 5 minutes $6^\circ \times 5 = 30^\circ$

Here $\theta = 30^\circ$ and $r = 14\text{cm}$

$$\text{Area of sector} = \frac{\theta}{360} \times \pi r^2 = 51.31\text{cm}^2.$$