

Excercise

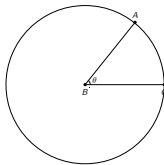
Pratibha

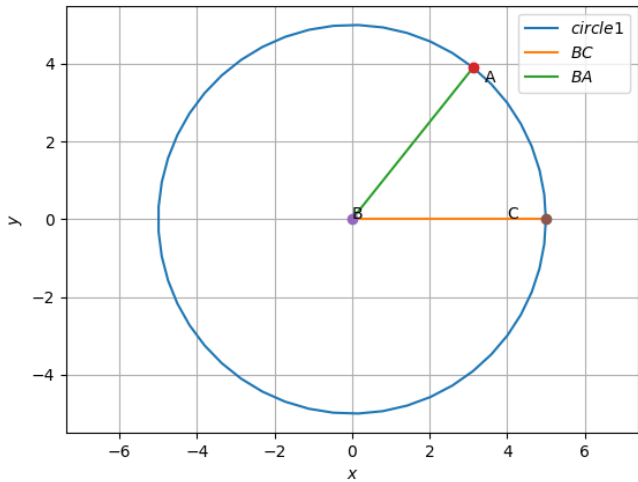
3 Jan 2020

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 $r = 14\text{cm}$

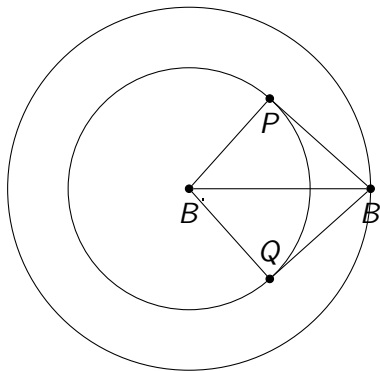
$$\text{Area of sector} = \frac{\theta}{360} \times \pi r^2 = 51.31\text{cm}^2.$$

<https://github.com/pratibha444/GEOMETRY/blob/master/CODES/circle/circon.py>

Circle construction

Construct a tangent to a circle of radius 4 units from a point on the concentric circle of radius 6 units.

• **Solution :**



PB and QB are the tangents

