



Circles Ex 14.1 Q1

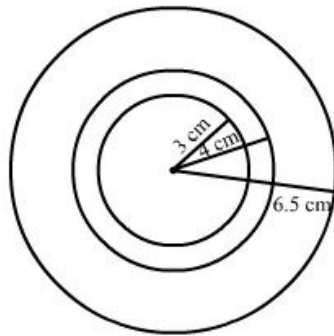
Answer :

- (i) A circle is a set of all those points in a plane, whose distance from a fixed point remains constant.
- (ii) Radius of a circle is a line segment with one end at its centre and the other end on the circle. (It is the constant distance between all the points on the circle and its centre.)
- (iii) The centre of a circle is that fixed point from which all points remain at a constant distance.
- (iv) Diameter of a circle is a line segment passing through the centre of a circle, and having its end points on the circle.
- (v) A chord of a circle is a line segment with its end points lying on the circle.
- (vi) Interior of a circle is a set of all those points which lie inside the circle.

Circles Ex 14.1 Q2

Answer :

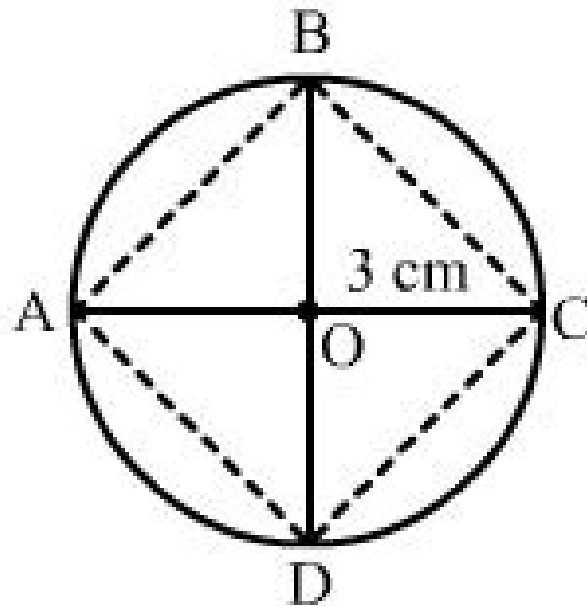
The given figure shows circles of radii 4 cm, 3 cm and 6.5 cm, respectively.



Circles Ex 14.1 Q3

Answer :

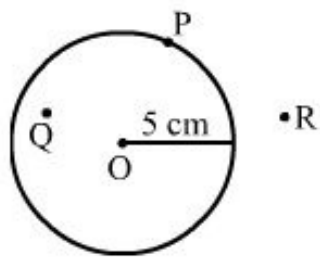
The figure is shown below -



Circles Ex 14.1 Q4

Answer :

The given figure shows the points P, Q and R such that



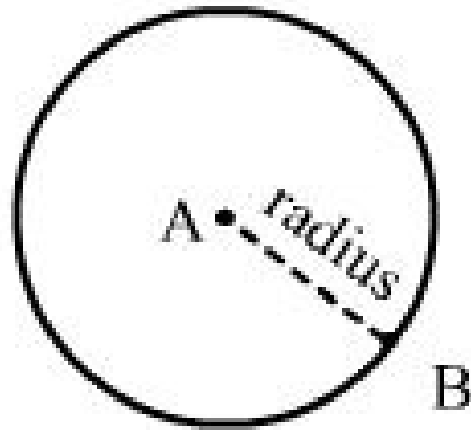
- (i) P lies on the circle.
- (ii) Q lies in the interior of the circle.
- (iii) R lies on the exterior of the circle.

- (i) $OQ < 5 \text{ cm}$
- (ii) $OP = 5 \text{ cm}$
- (iii) $OR > 5 \text{ cm}$

Circles Ex 14.1 Q5

Answer :

The figure is shown below -



***** END *****