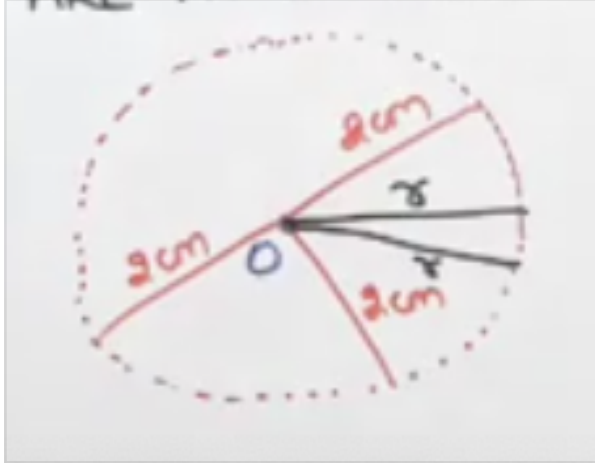


# Circle Drawing Algorithms

## Basic Concepts of Circle

**Def :** A set of all points in a plane which are at a fixed distance from a fixed point.



## Circle Equations :

-> When center is (h, k) :

$$(X - h)^2 + (y - k)^2 = r^2$$

-> When center is (0, 0) origin :

$$x^2 + y^2 = r^2$$

## Mathematical Representation Of Circle

1. Polynomial Method
2. Trigonometric or Polar Coordinate Method

We divide the circle into 8 symmetric parts and then find out the points for any one part of the circle