



SpeedLabs

MATHS

CBSE 9th

TEEVRA EDUTECH PVT. LTD.

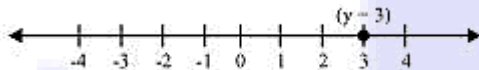
LINEAR EQUATIONS IN TWO VARIABLES

Exercise- 4.4

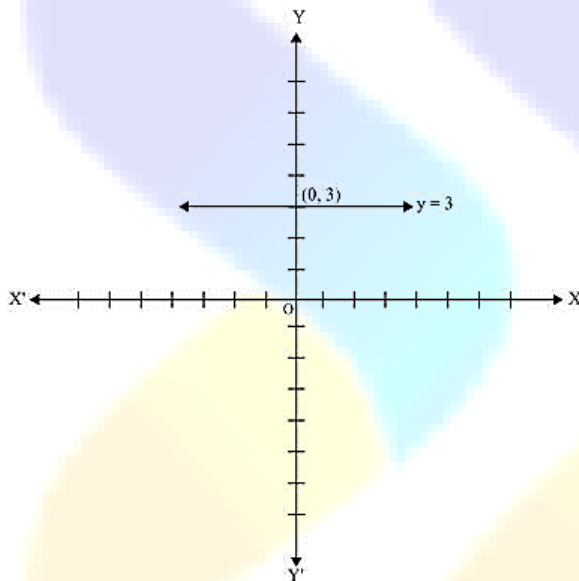
Q 1. Give the geometric representation of $y=3$ as an equation

- (i) In one variable
- (ii) In two variables

Ans - In one variable, $y = 3$ represents a point as shown in following figure.



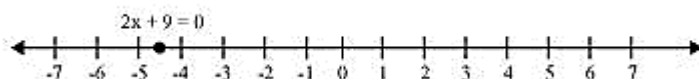
In two variables, $y = 3$ represents a straight line passing through point $(0, 3)$ and parallel to x-axis. It is a collection of all points of the plane, having their y-coordinate as 3.



Q.2 Give the geometric representations of $2x + 9 = 0$ as an equation

- (1) In one variable
- (2) in two variables

Ans - (1) In one variable, $2x + 9 = 0$ represents a point $x = \frac{-9}{2}$ as shown in the following figure.



(2) In two variables, $2x + 9 = 0$ represents a straight line passing through point $(-4.5, 0)$ and parallel to y-axis. It is a collection of all points of the plane, having their x-coordinate as 4.5.

