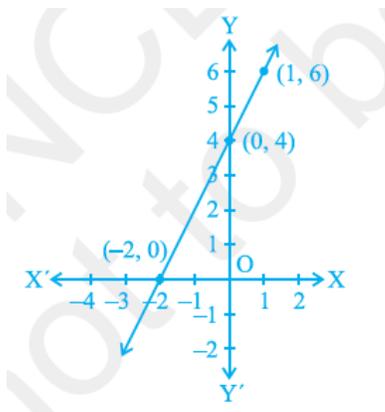


CLASS-9-MATHEMATICS
CHAPTER-4
LINEAR EQUATIONS IN TWO VARIABLES

WORK SHEET 2 of 3

- 1) Draw the graph of $x + y = 7$.
- 2) Draw the graphs of each of the following linear equations in two variables:
 - (i) $x - y = 2$
 - (ii) $y = 3x$
 - (iii) $3 = 2x + y$
- 3) Give the equations of two lines passing through $(2, 14)$. How many more such lines are there, and why?
- 4) If the point $(3, 4)$ lies on the graph of the equation $3y = ax + 7$, find the value of a .
- 5) Which of the equations (i) $x + y = 0$ (ii) $y = 2x$ (iii) $y = 2x + 4$ (iv) $y = x - 4$ represent the following graph



- 6) Yamini and Fatima, two students of Class IX of a school, together contributed Rs 100 towards the Prime Minister's Relief Fund to help the earthquake victims. Write a linear equation which satisfies this data. (You may take their contributions as Rs x and Rs y .) Draw the graph of the same.
- 7) Give the geometric representations of $y = 3$ as an equation
 - (i) in one variable
 - (ii) in two variables
- 8) Give the geometric representations of $2x + 9 = 0$ as an equation
 - (i) in one variable
 - (ii) in two variables

MULTIPLE CHOICE QUESTIONS

9) The graph of the linear equation $2x + 3y = 6$ cuts the y -axis at the point

- (A) (2, 0) (B) (0, 3) (C) (3, 0) (D) (0, 2)

10) Any point on the x -axis is of the form

- (A) (x, y) (B) $(0, y)$ (C) $(x, 0)$ (D) (x, x)

11) Any point on the line $y = x$ is of the form

- (A) (a, a) (B) $(0, a)$ (C) $(a, 0)$ (D) $(a, -a)$

12) The equation of x -axis is

- (A) $x = 0$ (B) $y = 0$ (C) $x + y = 0$ (D) $x = y$

13) The equation of y -axis is

- (A) $x = 0$ (B) $y = 0$ (C) $x + y = 0$ (D) $x = y$

14) The graph of $y = 6$ is a line

- (A) parallel to x -axis at a distance 6 units from the origin
 (B) parallel to y -axis at a distance 6 units from the origin
 (C) making an intercept 6 on the x -axis.
 (D) making an intercept 6 on both the axes.

15) $x = 5, y = 2$ is a solution of the linear equation

- (A) $x + 2y = 7$ (B) $5x + 2y = 7$ (C) $x + y = 7$ (D) $5x + y = 7$
