CLASS-9-MATHEMATICS
CHAPTER-4
LINEAR EQUATIONS IN TWO VARIABLES
WORK SHEET 1 of 3

1) Write each of the following equations in the form $ax + by + c = 0$ and indicate the values of a, b and c in each case:

   (i) $2x + 3y = 4.37$ (ii) $2x = y$ *(iii)* $x = 3y$ *(iv)* $-2x + 3y = 6$ (v) $3x + 2 = 0$

2) Write each of the following as an equation in two variables:

   (i) $x = -5$ (ii) $y = 2$ (iii) $2x = 3$ (iv) $5y = 2$

3) Find two solutions for each of the following equations:

   (i) $4x + 3y = 12$ (ii) $2x + 5y = 0$ (iii) $3y + 4 = 0$

4) Check which of the following are solutions of the equation $x - 2y = 4$ and which are not:

   (i) (0, 2) (ii) (2, 0) (iii) $(\sqrt{2}, 4\sqrt{2})$ (iv) (1, 1)

5) Find the value of k, if $x = 2$, $y = 1$ is a solution of the equation $2x + 3y = k$.

MULTIPLE CHOICE QUESTIONS

6) The linear equation $2x - 5y = 7$ has

   (A) A unique solution (B) Two solutions

   (C) Infinitely many solutions (D) No solution

7) The linear equation $3x - y = x - 1$ has :

   (A) A unique solution (B) Two solutions

   (C) Infinitely many solutions (D) No solution

8) If (2, 0) is a solution of the linear equation $2x + 3y = k$, then the value of k is

   (A) 4 (B) 6 (C) 5 (D) 2

9) Any solution of the linear equation $2x + 0y + 9 = 0$ in two variables is of the form

   (A) $\left(\frac{-9}{2}, m\right)$ (B) $\left(n, \frac{-9}{2}\right)$ (C) $\left(0, \frac{-9}{2}\right)$ (D) $(-9.\ 0)$

10) The equation $x = 7$, in two variables, can be written as

   (A) $1x + 1y = 7$ (B) $1x + 0y = 7$ (C) $0x + 1y = 7$ (D) $0x + 0y = 7$

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