Class-IX Maths chapter-4 Linear equations in two variables

Assignment - 5

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

(a) $x - \frac{3}{2}y = \frac{1}{3}$ (b) $3x - 4 = 7x + y$ (c) $\frac{x}{3} = \frac{y-2}{7}$

(d) $\frac{x}{2} - \frac{2}{3}y = 6$ (e) $\frac{x+3}{2} = \frac{y-3}{5}$

Q.2. Find six different solutions of the equation

$3x - 2y = 6$

Q.3- If $x=2$, $y=1$ is a solution of $7x-7y=2k$, then find the value of k.

Q.4- If $x = 2k-1$ and $y=k$ is a solution of the equation $3x-y+6=0$, then find the value of k.

Q.5. The cost of 5 pencils is equal to the cost of 2 ball points. Write a linear equation in two variables to represent this statement.

Q.6- Find 5 different solutions of each of the equations

(a) $\frac{x}{2} = \frac{y}{3} + 7$ (b) $y = 7x - \frac{1}{2}$

Q.7- Draw the graph of the equation $2x-y+3=0$. Using the graph, find the value of y when (a) $x=2$

(b) $x=-3$

Q.8- Draw the graph of $y=-2x$

Q.9- Draw the graph of $x=2$ & $x=-3$

Q-10- Draw the graph of $y=-3$ & $y=4$