

Mathematics Assignment (Class-IX)

Chapter- 4 Linear Equations in Two Variables

	1 MARKER QUESTIONS
1	If $x = -4$, $y = -1$ is a solution of the equation $5x - py = 1$, then find the value of p .
2	The cost of a toy is 5 times the cost of a ball. Represent this statement as a linear equation in two variables.
3	Express x in terms of y , given that $3x + 4y = 6$. Check whether the point $(3, 2)$ is on the given line?
4	Find the value of b in equation $bx + y = 8$, for $x = 3$ and $y = 2$.
5	Write equations of two lines passing through the point $(-6, 2)$.
6	Check by substituting whether $x = -3$ and $y = -3$ is a solution of $3(x - 1) - 2y = 4$. Find one more solution. How many more solutions can you find?
	2 MARKER QUESTIONS
7	Find 4 solutions of the equation $3 = 2x - y$.
8	Express the equation $4x - 8 = 0$ in the form $ax + by + c = 0$ and find the values of a , b , and c .
9	Express y in the terms of x , given that $2x - 5y = 7$. Find
10	Find the solution of the linear equation $x + 2y = 8$ which represents a point on: (a) The x -axis (b) the y -axis.
11	Write down the equation of x -axis and of y -axis.
12	Find four solutions of the linear equation: $2x - 7y = 28$.
	3 MARKER QUESTIONS
13	Give the geometrical representation of $2x - 4 = 4x - 9$ as an equation in: (a) one variable (b) two variables.
14	Draw the graph of the equation $x + 2y = 6$. Find the area bounded by the line and the two axes.
15	Draw the graph of linear equation $7x + y = 13$. From the graph, find the points where the line meets the axes.
16	Draw the graph of the equation $y = 3x$. Check whether the point $(2, 6)$ lies on the graph of the equation or not?
17	Draw the graph of the liner equation $x = -4$ and $y = 4$. Find the area formed by the two lines and the axes.

18	Write the equation whose solutions are represented by the points having difference of the coordinates as 8. Represent is graphically.
	4 MARKER QUESTIONS
19	A lending library has a fixed charge for the first three days and an additional charge for each day thereafter. Sumita paid Rs. 28 for a book kept for five days. Write a linear equation expressing the given situation and draw the graph for the same.
20	The force applied on a body is directly proportional to the acceleration produced in the body. Write an equation to express the situation and plot the graph of the equation taking the constant mass as 3 units.
	HOTS
21	If the graph of the equation $4x + 3y = 12$ cuts the coordinate axes at A and B, then find the length of the hypotenuse of right triangle OAB.
22	The path of train A is given by the equation $x + 4y - 12 = 0$ and the path of another train B is given by the equation $6x + 8y - 48 = 0$ represent this situation graphically. Also check from the graph whether the given paths meet anywhere or not.