



ASSIGNMENT  
CLASS – IX  
CH. – 4  
LINEAR EQUATIONS IN TWO VARIABLES

1. Find the value of  $k$ , if  $x = 2$ ,  $y = 1$  is a solution of the equation  $2x + 3y = k$ .
2. Find the points where the graph of the equation  $3x + 4y = 12$  cuts the  $x$ -axis and the  $y$ -axis.
3. At what point does the graph of the linear equation  $x + y = 5$  meet a line which is parallel to the  $y$ -axis, at a distance 2 units from the origin and in the positive direction of  $x$ -axis.
4. Draw the graph of the equation represented by the straight line which is parallel to the  $x$ -axis and is 4 units above it.
5. Draw the graphs of linear equations  $y = x$  and  $y = -x$  on the same Cartesian plane. What do you observe?
6. Draw the graph of the linear equation whose solutions are represented by the points having the sum of the coordinates as 10 units.
7. Write the linear equation such that each point on its graph has an ordinate 3 times its abscissa.
8. If the point  $(3, 4)$  lies on the graph of  $3y = ax + 7$ , then find the value of  $a$ .
9. How many solution(s) of the equation  $2x + 1 = x - 3$  are there on the :  
(i) Number line (ii) Cartesian plane
10. Find the solution of the linear equation  $x + 2y = 8$  which represents a point on  
(i)  $x$ -axis (ii)  $y$ -axis.
11. Draw the graph of the linear equation  $2x + 3y = 12$ . At what points, the graph of the equation cuts the  $x$ -axis and the  $y$ -axis?
12. Draw the graphs of the equations  $3x - 2y = 4$  and  $x + y - 3 = 0$  in the same graph paper. Find the coordinates of the point where two lines intersect.
13. Draw the graphs of the equations  $3x - 2y + 6 = 0$  and  $x + 2y - 6 = 0$  in the same graph paper. Find the area of triangle formed by the two lines and  $x$  - axis.