



**MM 25**

**Linear Equations in two variables**

**Time 50 Minutes**

**Section A 1 Marks Each**

1. Graph of a linear equation in two variables is always \_\_\_\_\_
2. A linear equation in two variables has \_\_\_\_\_ solutions.
3. If  $(2, 1)$  is a solution of  $3x - 5ky = 7$ , find  $k$ .

**Section B 2 Marks Each**

4. Find coordinates of points where  $3x - 2y + 6 = 0$  intersects the axes.
5. Write equation of a line passing through  $A(2, -3)$ . How many such lines are possible?

**Section B 3 Marks Each**

6. Draw graph of the equation represented by the straight line parallel to  $x$  axis and 3 units below it.
7. Write equation of the line passing through  $A(3, 2)$  and  $B(5, 7)$ . How many such lines are possible?

**Section D 4 Marks Each**

8. Draw graph of two lines whose equations are  $3x - 2y + 6 = 0$  and  $x + 2y - 6 = 0$  on same graph paper. Find vertices of triangle formed by these two lines and  $Y$  axis.
9. Salary of a worker is directly proportional to number of working days. If his monthly salary is Rs 4500. Express this in the form of an equation in two variables and draw the graph.
10. Two persons  $A$  and  $B$  together contribute Rs 500 to Prime Minister's relief fund. Express this in the form of a linear equation in two variables and draw the graph. What value does it represent?

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