

10th chapter: Pair of Linear Equations in two Variables

MULTIPLE CHOICE QUESTIONS

- Every linear equation in two variables has ___ solution(s).
(a) no (b) one (c) two (d) infinitely many
- $a_1/a_2 = b_1/b_2 = c_1/c_2$ is the condition for
(a) intersecting lines (b) parallel lines (c) coincident lines (d) none
- For a pair to be consistent and dependent the pair must have
(a) no solution (b) unique solution (c) infinitely many solutions (d) none of these
- Graph of every linear equation in two variables represent a ____
(a) point (b) straight line (c) curve (d) triangle
- Each point on the graph of pair of two lines is a common solution of the lines in case of ____
(a) Infinitely many solutions (b) only one solution (c) no solution (d) none of these
- Which of the following is the solution of the pair of linear equations $3x - 2y = 0$, $5y - x = 0$
(a) (5, 1) (b) (2, 3) (c) (1, 5) (d) (0, 0)
- One of the common solutions of $ax + by = c$ and y -axis is ____
(a) (0, c/b) (b) (0, b/c) (c) (0, c/b) (d) (0, c/b)
- If the value of x in the equation $2x - 8y = 12$ is 2 then the corresponding value of y will be
(a) -1 (b) +1 (c) 0 (d) 2
- The pair of linear equations is said to be inconsistent if they have
(a) only one solution (b) no solution (c) infinitely many solutions. (d) both a and c
- On representing $x = a$ and $y = b$ graphically we get ____

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(a) parallel lines (b) coincident lines (c) intersecting lines at (a, b) (d) intersecting lines at (b, a)

11. How many real solutions of $2x + 3y = 5$ are possible

(a) no (b) one (c) two (d) infinitely many

12. The value of k for which the system of equation $3x + 2y = -5$, $x - ky = 2$ has a unique solutions.

(a) $K = 2/3$ (b) $K \neq 2/3$ (c) $K = -2/3$ (d) $K \neq -2/3$

13. If the lines represented by the pair of linear equations $2x + 5y = 3$, $2(k + 2)y + (k + 1)x = 2k$ are coincident then the value of k is _____

(a) -3 (b) 3 (c) 1 (d) -2

14. The coordinates of the point where x -axis and the line represented by $x/2 + 4/3 = 1$ intersect, are

(a) $(0, 3)$ (b) $(3, 0)$ (c) $(2, 0)$ (d) $(0, 2)$

15. Graphically $x - 2 = 0$ represents a line

(a) parallel to x -axis at a distance 2 units from x -axis.

(b) parallel to y -axis at a distance 2 units from it.

(c) parallel to x -axis at a distance 2 units from y -axis.

(d) parallel to y -axis at a distance 2 units from x -axis.

16. If $ax + by = c$ and $lx + my = n$ has unique solution then the relation between the coefficients will be _____

(a) $am \neq lb$ (b) $am = lb$ (c) $ab = lm$ (d) $ab \neq lm$