



GRADE 9TH MATHS
CHAPTER 4

LINEAR EQUATION IN TWO VARIABLES

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MULTIPLE-CHOICE QUESTIONS (MCQ)

Choose the correct answer in each of the following questions:

- The equation of the x -axis is
(a) $x = 0$ (b) $y = 0$ (c) $x = y$ (d) $x + y = 0$
- The equation of the y -axis is
(a) $x = 0$ (b) $y = 0$ (c) $x = y$ (d) $x + y = 0$
- The point of the form (a, a) , $a \neq 0$ lies on
(a) the x -axis (b) the y -axis
(c) the line $y = x$ (d) the line $x + y = 0$
- The point of the form $(a, -a)$, $a \neq 0$ lies on
(a) the x -axis (b) the y -axis
(c) the line $y = x$ (d) the line $x + y = 0$
- The linear equation $3x - 5y = 15$ has
(a) a unique solution (b) two solutions
(c) infinitely many solutions (d) no solution
- The equation $2x + 5y = 7$ has a unique solution, if x and y are
(a) natural numbers (b) rational numbers
(c) positive real numbers (d) real numbers
- The graph of $y = 5$ is a line
(a) making an intercept 5 on the x -axis
(b) making an intercept 5 on the y -axis
(c) parallel to the x -axis at a distance of 5 units from the origin
(d) parallel to the y -axis at a distance of 5 units from the origin
- The graph of $x = 4$ is a line
(a) making an intercept 4 on the x -axis
(b) making an intercept 4 on the y -axis
(c) parallel to the x -axis at a distance of 4 units from the origin
(d) parallel to the y -axis at a distance of 4 units from the origin
- The graph of $x + 3 = 0$ is a line
(a) making an intercept -3 on the x -axis
(b) making an intercept -3 on the y -axis
(c) parallel to the y -axis at a distance of 3 units to the left of y -axis
(d) parallel to the x -axis at a distance of 3 units below the x -axis
- The graph of $y + 2 = 0$ is a line
(a) making an intercept of -2 on the x -axis
(b) making an intercept of -2 on the y -axis
(c) parallel to the x -axis at a distance of 2 units below the x -axis
(d) parallel to the y -axis at a distance of 2 units to the left of y -axis
- The graph of the linear equation $2x + 3y = 6$ meets the y -axis at the point
(a) $(2, 0)$ (b) $(3, 0)$ (c) $(0, 2)$ (d) $(0, 3)$

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12. The graph of the linear equation $2x + 5y = 10$ meets the x -axis at the point
 (a) (0, 2) (b) (2, 0) (c) (5, 0) (d) (0, 5)
13. The graph of the line $x = 3$ passes through the point
 (a) (0, 3) (b) (2, 3) (c) (3, 2) (d) none of these
14. The graph of the line $y = 3$ passes through the point
 (a) (3, 0) (b) (3, 2) (c) (2, 3) (d) none of these
15. The graph of the line $y = -3$ does not pass through the point
 (a) (2, -3) (b) (3, -3) (c) (0, -3) (d) (-3, 2)
16. The graph of the line $x - y = 0$ passes through the point
 (a) $(\frac{-1}{2}, \frac{1}{2})$ (b) $(\frac{3}{2}, \frac{-3}{2})$ (c) (0, -1) (d) (1, 1)
17. Each of the points $(-2, 2)$, $(0, 0)$, $(2, -2)$ satisfies the linear equation
 (a) $x - y = 0$ (b) $x + y = 0$
 (c) $-x + 2y = 0$ (d) $x - 2y = 0$
18. How many linear equations can be satisfied by $x = 2$ and $y = 3$?
 (a) only one (b) only two
 (c) only three (d) infinitely many
19. A linear equation in two variables x and y is of the form $ax + by + c = 0$, where
 (a) $a \neq 0, b \neq 0$ (b) $a \neq 0, b = 0$
 (c) $a = 0, b \neq 0$ (d) $a = 0, c = 0$
20. If $(2, 0)$ is a solution of the linear equation $2x + 3y = k$ then the value of k is
 (a) 6 (b) 5 (c) 2 (d) 4
21. Any point on the x -axis is of the form
 (a) (x, y) (b) $(0, y)$ (c) $(x, 0)$ (d) (x, x)
22. Any point on the y -axis is of the form
 (a) (x, y) (b) $(0, y)$ (c) $(x, 0)$ (d) (y, y)
23. $x = 5, y = 2$ is a solution of the linear equation
 (a) $x + 2y = 7$ (b) $5x + 2y = 7$
 (c) $x + y = 7$ (d) $5x + y = 7$
24. If the point $(3, 4)$ lies on the graph of $3y = ax + 7$ then the value of a is
 (a) $\frac{2}{5}$ (b) $\frac{5}{3}$ (c) $\frac{3}{5}$ (d) $\frac{2}{7}$