G. N. National Public School, Gorakhnath, GKP

Class- IX Mathematics

Chapter-4 Linear equations in two variables

ASSIGNMENT PART-3

Q-15. Draw the graph of the equation $2x - y + 3 = 0$. Using the graph, find the value of y, when $x = -2$.

Q-16. Draw the graph of each of the following equations:

(i) $x = 5$ (ii) $y = -2$ (iii) $x + 6 = 0$

(iv) $x + 7 = 0$ (v) $y = 0$ (vi) $x = 0$

Q-17. Draw the graph of the equation $y = 3x$. From your graph, find the value of y when $x = -2$

Q-18. Draw the graph of the equation $3x + 2y = 6$. Find the coordinates of the point, where the graph cuts the y-axis.

Q-19. The total runs scored by two batsman in a one-day cricket match is 215. Express this information in the form of a linear equation in two variables.

Q-20. The weight of a book is three times the weight of a note book. Express this fact in the form of an equation in two variables.

CR-4. Linear equations in two variables Assignment Part-4

Q-21. Draw the graph of the equation $3x + 5y - 15 = 0$ and show that $x = 1$, $y = 2$ is not a solution of the equation.

Q-22. Draw the graph of the equation $x - 2y = 6$. Verify that each of the points $P(2, -2)$, $Q(4, -1)$ and $R(-2, -4)$ lies on the straight line.

Q-23. Solve the equation $3x + 1 = x - 8$ and represent the solution on
(i) the number line (ii) the cartesian plane.

Q-24. Give the geometric representation of $y = 4$ as an equation
(i) in one variable (ii) in two variables.

Q-25. A taxi charges Rs 20 for the first km and Rs 12 per km for subsequent distance covered. Taking the distance covered as x km and total fare Rs y, write a linear equation depicting the relation in x and y.
Draw the graph between x and y.
From your graph find the taxi charges for covering 16 km.

Q-26. Draw the graph for each of the equation $x + y = 6$ and $x - y = 2$ on the same graph paper and find the coordinates of the point where the two straight lines intersect.