

II TERM
MATHEMATICS
CLASS-IX
ASSIGNMENT NO 1
LINEAR EQUATIONS

Q1. Draw the graphs of each of the following equations:-

1. $3x - 2y + 5 = 0$

2. $2x + 3y - 7 = 0$

What do you observe from each graph.

Q2. Draw the graphs of each of the equations.

$2x - 3y + 5 = 0$, and $5x = 4y + 1 = 0$ and find the coordinates of the point where the lines meet.

Q3. Write four solutions for each of the following equations and draw the graph .

1. $2x + 5y = 0$

2. $x - y + 1 = 0$

3. $x + 4 = 0$

4. $x = y$

Q4. Verify which of the following are solutions of the equations $x - 2y = 4$ and which are not:-

$(0, -2), (2, 0), (4, 0), (6, 1), (2, 42), (3, -1)$

Q5. Find the value of b if $(-3, 4)$ is the solution of the equation $3x - 4y = b$

Q6. Draw the graph of the equation $5x - 3y = 1$, from the graph find y when $x = 2$.

Q7. Find the value of m if $(\frac{3}{4}, -\frac{5}{6})$ is the solution for equation $4x - 12y = m$

Q8. Draw the graph of the following linear equations:-

$$x + 2y = 1, \quad x - 2y = -7$$

Find the points where they meet each other and the axis of x .

Q9. The work done by a body on application of a constant force is the product of the constant by the body in the direction of force express this in the form of linear equation in two variables and draw its graph by taking the constant force as 3 units