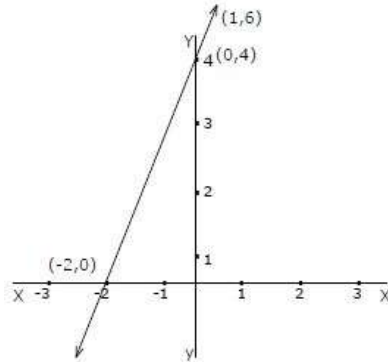




SATISH CHANDRA MEMORIAL SCHOOL
CLASS: IX MATHEMATICS
HOT QUESTIONS (Ch: Linear equation in two variables)

Asim sarker

1. If $(2, 0)$ is a solution of the linear equation $2x + 3y = k$, find the value of k .
2. If $x = 1$ and $y = 2$ is a solution of the linear equation $a^2x + ay = 3$, find the value of a .



3. Write the linear equation from the graph given above.
4. A number is three times the other. Write a linear equation in two variables to represent this statement.
5. If $x = 2\alpha + 1$ and $y = \alpha - 1$ solution of the linear equation $2x - 3y + 5 = 0$, find the value of α .
6. Draw the graph of $4x + 3y = 24$
 - i) Write the coordinates of points where this line intersects x-axis and y- axis.
 - ii) Use this graph to find the area of the triangle formed by this line and the coordinates axes.
7. Draw the graphs of $2x + y = 6$ and $2x - y + 2 = 0$. Shade the region bounded by these lines and x-axis. Find the area of the shaded region.
8. Draw the graph of $y = |x| + 2$
9. Solve the equation $2x + 1 = x - 3$ and represent the solution on
 - i) The number line
 - ii) The Cartesian plane
10. Give the geometric representation of the equation $y + 3 = 9$ in:
 - i) One variable
 - ii) Two variable