

Test- Linear Equation with two variables

Q.1 Express the following linear equations in the form $ax + by + c = 0$ and indicate the values of a , b and c in each case:

(i) $x - y/5 - 10 = 0$ (ii) $-2x + 3y = 6$ (iii) $y - 2 = 0$

Q.2 Write four solutions for each of the following equations:

(i) $2x + y = 7$ (ii) $\pi x + y = 9$

Q.3 Find the value of k , if $x = 2, y = 1$ is a solution of the equation $2x + 3y = k$.

Q.4 The price of a notebook is twice the cost of a pen. Note a linear equation in two variables to illustrate this statement.

(Taking the price of a notebook to be ₹ x and that of a pen to be ₹ y)

Q.5 MCQ : The linear equation $2x - 5y = 7$ has

- (A) A unique solution
- (B) Two solutions
- (C) Infinitely many solutions

Q.6 Draw the graph linear equations $y = 3x$ in two variables

Q.7 Show that the points A (1, 2), B (-1, -16) and C (0, -7) lie on the graph of the linear equation $y = 9x - 7$.

Q.8 Yamini and Fatima, two students of Class IX of a school, together contributed ₹ 100 towards the Prime Minister's Relief Fund to help the earthquake victims. Write a linear equation which satisfies this data (You may take their contributions as ₹ x and ₹ y). Draw the graph of the same.

Q.9 Give the geometric representations of $2x + 9 = 0$ as an equation:

- in one variable
- in two variables

Q.10 Write the linear equation such that each point on its graph has an ordinate 3 times its abscissa

