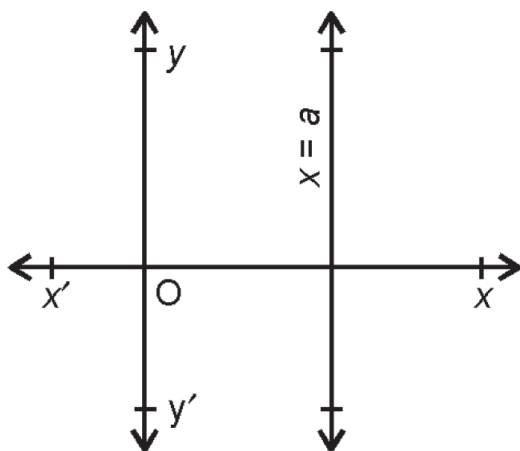
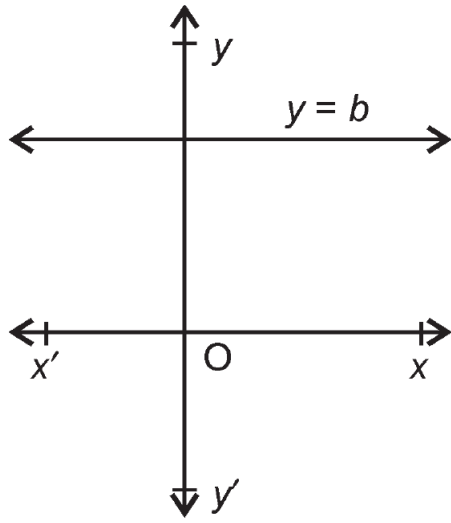


Basic Concepts

1. An equation of the form $ax + by + c = 0$, where a, b, c are real numbers, is called a linear equation in x and y . For example, $3x + 2y = 9$, $4x - 5y = 1$ and $\frac{3}{4}x - 2 = 5$ are linear equations in x and y .
2. A linear equation in two variables can be solved in the same way as a linear equation in one variable. The pair of values x and y which satisfies the given equation is called solution of the equation in two variables.
3. A linear equation in two variables has infinitely many solutions.
4. In order to draw the graph of a linear equation in two variables we may follow the following method:
 - (i) Express y in terms of x .
 - (ii) Choose at least two convenient values of x and find the corresponding values of y , satisfying the given equation.
 - (iii) Write down these values of x and y in the form of a table.
 - (iv) Plot the ordered pairs (x, y) from the table on a graph paper.
 - (v) Join these points by a straight line and extended it in both the directions. This line is the graph of the given equation.
5. Equation of a line parallel to the y - axis at a distance a from it is $x = a$.



6. Equation of a line parallel to x -axis at a distance b from it is $y = b$.



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