QUESTION- BANK

CHAPTER – 4 Std -9th

LINEAR EQUATION IN TWO VARIABLE

Q 1write the equation of x=5 in the standard form of linear equation in two variables.

Q 2 write is the equation of x-axis ?

Q 3 write an equation of a line which passes through the origin.

Q 4 At what point, the graph of linear equation2x Plus3y = 6cut the y axis.

Q 5 If a linear equation passes through the points (3,-3) and (6,-6) , then write the equation of the line.

Q 6 Write a linear equation where the point of the form (a, a) lies.

Q 7Tthe cost of a hen is 50 times the cost of its egg. Write the linear equation for the above statement, if x represent the cost of a hen and Y represent cost of an egg of it.

Q 8 In which quadrant the positive solution of the equation ax + by + c=0 always lie.

Q 9 Write two solutions of the linear equation x + 2y = 1.

Q 10 The graph of the equation y = mx + c. Does not pass through the origin, justify the statement.

Short questions for 2 marks each.

Q 1 The sum of a two digit number and the number obtained by reversing the order of the digit is 121. It unit's and ten's digit of the number are x and y respectively. Then write the linear equation representing the above statement.

Q 2 Express y in terms of x given that 2x - 5y = 7. Check whether the point (-3,-2) is on the given line.

Q 3 Draw the graph of linear equation y = x on the same Cartesian plane. What do you observe.?

Q 4 Draw the graph of the linear equation whose Solutions are represented by the points having the sum of the coordinates as 10 units

Q 5 Find the value of K, if (1,-1) is a solution of the equation 3x –k y = 8. Also, find the coordinates of the another point lying on its graph.

Q 6 Draw the graph of linear equation 2x + 5y = 13,. Check whether (4,1) is a solution of the given equation.

Q 7 Write linear equation such that each point on its graph has ordinate 3 times its abscissa.

Short answer question for 3 marks

Q 1Determine the point on the graph of the linear equation 2X + 5Y = 19, whose ordinate is $1\frac{1}{2}$ times its abscissa.

Q 2 Determine the point on the graph of the linear equation 2X + 3Y= 15, whose abscissa is3 ½ times its ordinate.

Q 3 For what value of C, the linear equation 2X + CY= 8 has equal value of x and y for its solution?

Q 4 Find two solutions of the linear equation 5x – 4y = - 8

Q 5 Draw the graph of the linear equation 2x + 3y = 12. At what points the graph of the equation cuts the x – axis and the y axis

Q 6 Draw the graphs of the equations x + y = 6 and 2x – 3y = 16 on the same graph paper. Find the coordinates of the points where the two lines intersect

Q 7 Draw the graph of the following equation 2(x + 1) = 3 (y – 1) – 4 and check whether the point (3, -1) lies on the line

Q 8 Draw the graph of y = - 5 and y = 5 on the same graph. Are the lines parallel? Find the point of intersection of two lines

Q 9 If present age of son and father are expressed by x and y respectively and after ten years father will be twice as old as his son. Write the relation between x and y

Q 10 If (2, 5) is a solution of the equation 2x + 3y = m, find the value of m (m = 19)


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