Class IX Maths Assignment Topic: Linear equations in two veriable - 2

Q.1 Find out which of the following equations have x=1, y = 1 as a solution:

(a) 2x + 5y = 7 (b) 5x + 3y = 14 (c) 2x + 3y = 7 (d) None of these

Q.2 The equation of x-axis is

(a) x+3 = 0 (b) x- 2y =0 (c) y=0 (d) x=0

Q.3 Any point on the x-axis is of the form

(a) (x, y) (b) (0, y) (c) (x, 0) (d) (x, x)

Q.4 The point of the form (b, -b) always lies on the line

(a) x =a (b) y = -a (c) y =x (d) x+y = 0

Q.5 Q3. Is 2x + 3y + z = 0 this a linear equations in two variables?

Q.6 Draw graph of 2x + 5y = 7

Q.7 if x = 2, y = 1 is a solution of the equation 2x + 3k = y, then find value of k.

Q.8 Solve the equation 5x - 2 = 3x - 8 and represent the solution (a) on the number line, (b) on the Cartesian plane.

Q.9 If the work done by a body on application of a constant force is directly proportional to the distance travelled by the body. Express this in the form of an equation in two variables and draw the graph of the same by taking the constant force as 5 units. Also read from the graph the work done when the distance travelled by the body is (a) 2 units (b) 0 unit.

Q.10. Draw graph of x=3y

Q.11. Draw the graph of 2x- 3y = - 6. From the graph find the coordinates of the points where the line meets x axis and y axis.

Q.12. The taxi fare in a city is as follows: For the first 5 km the fare is Rs 10 per Km and after that Rs 8 per Km. Taking distance covered as x + 2 km and total fare as Rs. y . 6, write a linear equation, solve it and draw its graph.

Q.13. x + y = -7. Find the area of triangle formed between the x axis, y axis and the line

Q.14x + y = 4. Determine from the graph if (1, 3) is a solution or not

Q.15 x = 5. State the axis to which the given line is parallel.