Class IX Maths Assignment Topic: Linear equations in two veriable

1. Determine the point on the graph of the linear equation x + y=6, whose ordinate is twice its abscissa.

Q2. How many solution(s) of the equation 3x+2=2x-3 are there on the

   i) Number Line   ii) Cartesian plane

Q3. Draw the graph of the equation represented by the straight line which is parallel to the x-axis and 3 units above it.

Q4. Find the solutions of the linear equation x+2y=8, which represents a point on i) x axis ii) y-axis

Q5. For what values of c, the linear equation 2x+cy=8 has equal values of x and y as its solution.

Q6. Give the geometrical interpretations of 5x+3=3x-7 as an equation

i) in one variable ii) In two variables

Q7. Draw the graph of the equation 3x+4y=6. At what points, the graph cut the x-axis and the y-axis.

Q8. At what point does the graph of equation 2x+3y=9 meet a line which is parallel to y -axis at a distance 4 units from the origin and on the right side of the y-axis.

Q9. 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) *-2x + 3y = 6* (ii) *x = 3y* (iii) *2x = -5y*

Q10. Find the value of k if x = 2, y = 1 is a solution of the equation *2x + 3y = k*.

Q11. If the point (3, 4) lies on the graph of the equation 3y = ax + 7, find the value of a?

Q12. (i) Draw the graph of the linear equation using given Celsius for x-axis and Fahrenheit for y-axis.

$$F = \left(\frac{9}{5}\right)C + 32$$

(ii) If the temperature is 30°C, what is the temperature in Fahrenheit?

(iii) If the temperature is 95°F, what is the temperature in Celsius?

(iv) If the temperature is 0°C, what is the temperature in Fahrenheit and if the temperature is 0°F, what is the temperature in Celsius?

(v) Is there a temperature which is numerically the same in both Fahrenheit and Celsius? If yes, find it.

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