REVISION SHEET 2 CH 4 IX

Standard: 9th Subject: Mathematics

- **Q1.** Draw the graph of the line 4x + 3y = 24.
 - 1. Write the coordinates of the point where this line interects the x-axis and the y-axis.
 - 2. Use this graph to find the area of the triangle formed by the graph line and the coordinate axes.
- Q2. The path of a train A is given by th equation 3x + 4y 12 = 0 and the path or another train B is given by the equation 6x + 8y 48 = 0. Represent this situation graphically.
- Q3. Write the equation of a line parallel to y-axis and passing through the point (-3, -7).
- **Q4.** Give the geometric representations of the following equations:
 - 1. On the number line.
 - 2. On the Cartesain plane.

x = 2

Q5. Express the following equation in the form ax + by + c = 0 and indicate the values of a, b, c in case.

$$3y - 2x = 6$$

Q6. Find five different solution of the following equations:

$$3y = 4x$$

Q7. Express the following equation in the form ax + by + c = 0 and indicate the values of a, b, c in case.

$$3x - y = x - 1$$

- **Q8.** If the point (2, -2) lies on the graph of the linear equation 5x + ky = 4, find the value of k.
- **Q9.** Express the following equation in the form ax + by + c = 0 and indicate the values of a, b, c in case.

$$x + y = 4$$

Q10. If x = -1, y = 2 is a solution of the equation 3x + 4y = k, find the value of k.

- **Q11.** If x = 3 and y = 4 is a solution of the equation 5x 3y = k, find the value of k.
- **Q12.**Check the following are the solution of the equation 5x 4y = 20.

(0, 5)

(0, 6)

Q13.Check the following are solutions of the equation 2x - y = 6 and which are not:

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Q14. Find the value of k for which the point (1, -2) lies on the graph of the linear equation

$$x - 2y + k = 0.$$

- **Q15.**If x = 1 and y = 6 is a solution of the equation $8x ay + a^2 = 0$, find the values of a.
- **Q16.** If x = 2a + 1 and y = a 1 is a solution of the equation 2x 3y + 5 = 0, find the value of a.
- Q17. If the point (a, 2) lies on the graph of the linear equatio 2x 3y + 8 = 0, find the value of a.
- **Q18.** Draw the graph of the equation, 3x + 2y = 6.

Find the coordinates of the point where the graph cuts the y-axis.

Q19. Write two solutions for the following equations:

$$3x - 4y = 7$$

Q20.Ravish tells his doughter Aarushi, "Seven years ago, I was seven times as old as you were then. Also, three years from now, I shall be three times as old as you will be".. If present ages of Aarushi and Ravish are x and y years respectively, represent this situation algebraically as well as graphically.