# SENIOR SECTION DEPARTMENT OF MATHEMATICS CLASS IX

#### LINEAR EQUATIONS IN TWO VARIABLES

#### SECTION A: (1 MARK)

1.	Find m, if point (7, -3) lies on the equation $y = \frac{3}{7} = m(x - \frac{2}{7})$	$(m = \frac{-24}{47})$
	(NCERT EXEMPLAR)	
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3. If x- 4 = 
$$\sqrt{3}$$
 y is written in the standard form ax + by + c =0 then find the values of (a=1 b=- $\sqrt{3}$  c= -4)

#### SECTION B: (2 MARKS)

- Represent an equation of a straight line which is parallel to x-axis and at a distance of 2.5 units below it
- For the first Km, the fare is Rs15 and for the successive distance it is Rs8 per Km. (Y=15 + 8(x-1))
   Taking distance covered as x (Km) and the total fare as y (RS) Represent a linear equation in two variables
- 6. If (2,3) and (4,0) lie on the graph of the equation ax + by =1 then find a and b
- Find the co-ordinates of the points where the graph of the equation 7x 3y =4
   Cuts x-axis and y-axis

### b= 1/6 ) (X axis $(\frac{4}{7}, 0)$ Y axis $(0, \frac{-4}{3})$ )

(a = 1/4)

#### SECTION C: (3 MARKS)

8. Solve 
$$\frac{3x+2}{7} + \frac{4(x+1)}{5} = \frac{2(2x+1)}{3}$$

- 9. Draw the graph of the linear equation y=x and y=-x on the same Cartesian plane (Point of intersection is origin)

  (Point of intersection is origin)
- Draw the graph for the equation 2x +3 y = 12 and check whether the points (4.5,1) and (1.5,3) lies on the graph
- Give the geometrical interpretation of 5x + 3 = 3x -7 as an equation
   i) In one variable ii) In two variables

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