Mathematics

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(Chapter – 3) (Pair of Linear Equations in two variables) (Exercise 3.1)

(Class X)

Question 1:

Form the pair of linear equations in the following problems, and find their solutions graphically.

(i) 10 students of Class X took part in a Mathematics quiz. If the number of girls is 4 more than the number of boys, find the number of boys and girls who took part in the quiz.

(ii) 5 pencils and 7 pens together cost ₹ 50, whereas 7 pencils and 5 pens together cost ₹ 46. Find the cost of one pencil and that of one pen.

Answer 1:

(i) Let the number of girls $= x$ and let the number of boys $= y$

Total number of students $= 10$

Therefore, $x + y = 10$ ... (1)

According to question, number of girls is 4 more than the number of boys, so, $x = y + 4$ ... (2)

To represent graphically, three solutions of each equation is needed.

From the equation (1), we get

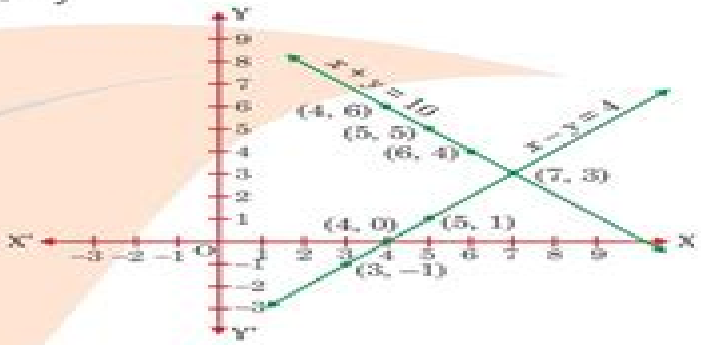
$x = 10 - y$

x	5	4	6
y	5	6	4

From the equation (2), we get

$x = y + 4$

x	5	4	3
y	1	0	-1



(ii) Let the cost of one pencil = ₹ x and let the cost of one pen = ₹ y

According to first condition,

$5x + 7y = 50$ ... (1)

According to second condition,

$7x + 5y = 46$ ... (2)

To represent graphically three solutions of each equation is given below,

From the equation (1), we get

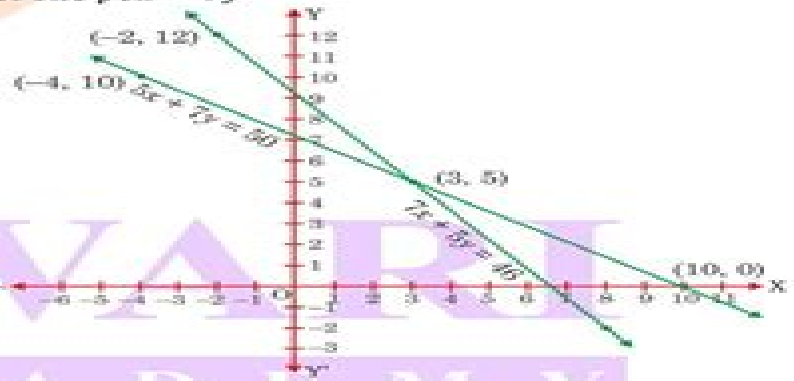
$x = \frac{50 - 7y}{5}$

x	3	10	-4
y	5	0	10

From the equation (2), we get

$x = \frac{46 - 5y}{7}$

x	8	3	-2
y	-2	5	12



Question 2:

On comparing the ratios $\frac{a_1}{a_2}$, $\frac{b_1}{b_2}$ and $\frac{c_1}{c_2}$, find out whether the lines representing the following pairs of linear equations intersect at a point, are parallel or coincident:

(i) $5x - 4y + 8 = 0$

$7x + 6y - 9 = 0$

(ii) $9x + 3y + 12 = 0$

$18x + 6y + 24 = 0$

(iii) $6x - 3y + 10 = 0$

$2x - y + 9 = 0$

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