

Ex 3.2 Question 1ii

1 (ii)

let cost of 1 pencil = Rs  $x$

cost of 1 pen = Rs  $y$

acc. to condition I

$$5x + 7y = 50$$

$$\Rightarrow 5x + 7y - 50 = 0 \dots \textcircled{1}$$

acc to condition II

$$7x + 5y = 46$$

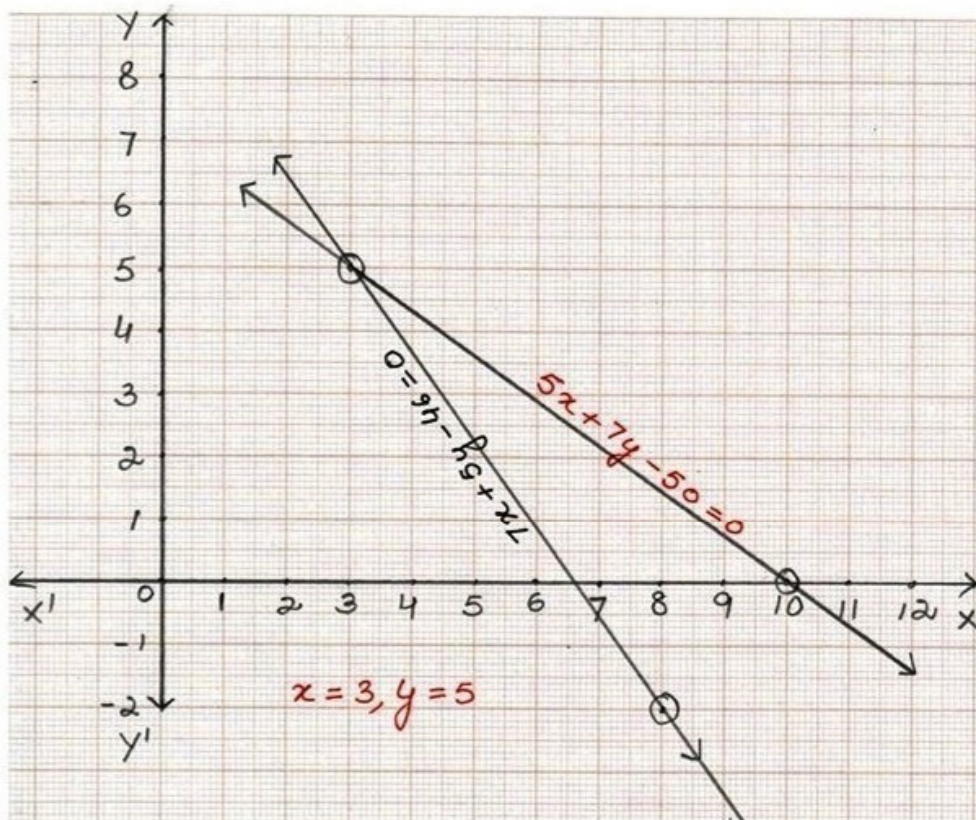
$$\Rightarrow 7x + 5y - 46 = 0 \dots \textcircled{2}$$

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

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

|   |    |   |
|---|----|---|
| x | 10 | 3 |
| y | 0  | 5 |

|   |   |    |
|---|---|----|
| x | 3 | 8  |
| y | 5 | -2 |



cost of 1 pencil = Rs 3

cost of 1 pen = Rs 5