Mathematics

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(Chapter – 3) (Pair of Linear Equations in two variables) (Exercise 3.3)
(Class X)

Question 1:

Solve the following pair of linear equations by the elimination method and the substitution method:

(i) $x + y = 5$ and $2x - 3y = 4$ (ii) $3x + 4y = 10$ and $2x - 2y = 2$

(iii) $3x - 5y - 4 = 0$ and $9x = 2y + 7$ (iv) $\frac{x}{2} + \frac{2y}{3} = -1$ and $x - \frac{y}{3} = 3$

Answer 1:

(i) $x + y = 5$ ... (1)

$2x - 3y = 4$ ... (2)

Multiply equation (1) by 2 and subtracting from equation (2), we get

$$\begin{array}{r} 2x - 3y = 4 \\ 2x + 2y = 10 \\ - \quad - \quad - \\ \hline -5y = -6 \end{array}$$

$$\Rightarrow y = \frac{6}{5}$$

Putting the value of y in equation (1), we get

$x + \frac{6}{5} = 5 \quad \Rightarrow x = 5 - \frac{6}{5} = \frac{19}{5} \quad \Rightarrow x = \frac{19}{5}$

Hence, $x = \frac{19}{5}$ and $y = \frac{6}{5}$.

(ii) $3x + 4y = 10$ ... (1)

$2x - 2y = 2$ ... (2)

Multiply equation (2) by 2 and adding with equation (1), we get

$$\begin{array}{r} 3x + 4y = 10 \\ 4x - 4y = 4 \\ \hline 7x = 14 \end{array}$$

$$\Rightarrow x = \frac{14}{7} = 2$$

Putting the value of x in equation (1), we get

$3(2) + 4y = 10 \quad \Rightarrow 4y = 4 \quad \Rightarrow y = 1$

Hence, $x = 2$ and $y = 1$.

(iii) $3x - 5y - 4 = 0$ ... (1)

$9x - 2y = 7$ ... (2)

Multiply equation (1) by 3 and subtracting from equation (2), we get

$$\begin{array}{r} 9x - 2y = 7 \\ 9x - 15y = 12 \\ - \quad + \quad - \\ \hline 13y = -5 \end{array}$$

$$\Rightarrow y = -\frac{5}{13}$$

Putting the value of y in equation (2), we get

$9x - 2\left(-\frac{5}{13}\right) = 7$

$\Rightarrow 9x = 7 - \frac{10}{13} = \frac{81}{13} \quad \Rightarrow x = \frac{9}{13}$

Hence, $x = \frac{9}{13}$ and $y = -\frac{5}{13}$.

(iv) $\frac{x}{2} + \frac{2y}{3} = -1$

$\Rightarrow 3x + 4y = -6$ ... (1)

and $x - \frac{y}{3} = 3$

$\Rightarrow 3x - y = 9$ ... (2)

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