Question. 6 C
Solve for x and y the following system of equations:

$$\frac{44}{x+y} + \frac{30}{x-y} = 10 \quad \frac{55}{x+y} + \frac{40}{x-y} = 13, x+y \neq 0, x-y \neq 0$$

Answer :
Given pair of linear equations is
$$\frac{44}{x+y} + \frac{30}{x-y} = 10 \quad \text{...(i)}$$
And $\frac{55}{x+y} + \frac{40}{x-y} = 13 \quad \text{...(ii)}$

On multiplying Eq. (i) by 4 and Eq. (ii) by 3 to make the coefficients equal of second term, we get the equation as
$$\frac{176}{x+y} + \frac{120}{x-y} = 40 \quad \text{...(iii)}$$
$$\frac{165}{x+y} + \frac{120}{x-y} = 39 \quad \text{...(iv)}$$

On substracting Eq. (iii) from Eq. (iv), we get
$$\frac{176}{x+y} + \frac{120}{x-y} - \frac{165}{x+y} - \frac{120}{x-y} = 40 - 39$$
$$\Rightarrow \frac{176 - 165}{x+y} = 1$$
$$\Rightarrow \frac{11}{x+y} = 1$$
$$\Rightarrow x + y = 11 \quad \text{...(a)}$$

On putting the value of x + y = 11 in Eq. (1), we get
$$\Rightarrow \frac{44}{11} + \frac{30}{x-y} = 10$$
$$\Rightarrow \frac{30}{x-y} = 10 - 4$$
$$\Rightarrow 6(x - y) = 30$$
$$\Rightarrow x - y = 5 \quad \text{...(b)}$$

Adding Eq. (a) and (b), we get
$$\Rightarrow 2x = 16$$
$$\Rightarrow x = 8$$

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Ying Liu

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