

VIII - Ch 2 Linear Equations in one Variable Ex 2.5

NCERT Solutions by Dev Anoop (Bathinda)

⑤  $\frac{3t-2}{4} - \frac{2t+3}{3} = \frac{2}{3} - t$

$$(\times 12) \quad \frac{3t-2}{4} \times \frac{3}{12} - \frac{2t+3}{3} \times \frac{4}{12} = \frac{2}{3} \times \frac{4}{12} - 12t$$

$$\Rightarrow 9t - 6 - 8t - 12 = 8 - 12t$$

$$\Rightarrow t - 18 = 8 - 12t$$

$$\Rightarrow t + 12t = 8 + 18$$

$$\Rightarrow 13t = 26$$

$$\Rightarrow t = \frac{26}{13}^2$$

$$\Rightarrow t = 2$$

⑥  $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$

$$(\times 6) \quad 6m - \frac{m-1}{2} \times \frac{3}{6} = 6 - \frac{m-2}{3} \times \frac{2}{6}$$

$$\Rightarrow 6m - 3m + 3 = 6 - 2m + 4$$

$$\Rightarrow 3m + 3 = 10 - 2m$$

$$\Rightarrow 3m + 2m = 10 - 3$$

$$\Rightarrow 5m = 7$$

$$\Rightarrow m = \frac{7}{5}$$

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