

VIII - Ch 2 Linear Equations in one Variable Ex 2.5

NCERT Solutions by Dev Anoop (Bathinda)

$$3. \quad x + 7 - \frac{8x}{3} = \frac{17}{6} - \frac{5x}{2}$$

$$(\times 6) \quad 6x + 42 - \frac{8x}{\cancel{3}} \times \cancel{6}^2 = \frac{17}{\cancel{6}} \times \cancel{6}^1 - \frac{5x}{\cancel{2}} \times \cancel{6}^3$$

$$\Rightarrow 6x + 42 - 16x = 17 - 15x$$

$$\Rightarrow -10x + 42 = 17 - 15x$$

$$\Rightarrow -10x + 15x = 17 - 42$$

$$\Rightarrow 5x = -25$$

$$\Rightarrow x = \frac{-25}{\cancel{5}}^5$$

$$\Rightarrow x = -5$$

$$4. \quad \frac{x-5}{3} = \frac{x-3}{5}$$

$$\Rightarrow 5x - 25 = 3x - 9$$

$$\Rightarrow 5x - 3x = -9 + 25$$

$$\Rightarrow 2x = 16$$

$$\Rightarrow x = \frac{16}{\cancel{2}}^8$$

$$\Rightarrow x = 8$$

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