

Class VIII - Unit 4

(67)

$$\frac{3x}{1} - \frac{x-2}{3} = \frac{4}{1} - \frac{x-1}{4}$$

$$\Rightarrow \frac{9x - x + 2}{3} = \frac{16 - x + 1}{4}$$

$$\Rightarrow \frac{8x + 2}{3} = \frac{17 - x}{4}$$

$$\Rightarrow 4(8x + 2) = 3(17 - x)$$

$$\Rightarrow 32x + 8 = 51 - 3x$$

$$\Rightarrow 32x + 3x = 51 - 8$$

$$\Rightarrow 35x = 43$$

$$\Rightarrow x = \frac{43}{35}$$

(68)

$$\frac{3t+5}{4} - 1 = \frac{4t-3}{5}$$

Mul. both sides by 20 (LCM of den.)

$$\overset{5}{20} \times \frac{3t+5}{\overset{4}{4}} - 20 = \overset{4}{20} \times \frac{4t-3}{\overset{5}{5}}$$

$$\Rightarrow 15t + 25 - 20 = 16t - 12$$

$$\Rightarrow 15t + 5 = 16t - 12$$

$$\Rightarrow 15t - 16t = -12 - 5$$

$$\Rightarrow -t = -17$$

$$\Rightarrow t = 17$$

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