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$$\overbrace{-\frac{1}{9}(x-27)}^{1 \text{ term}} + \overbrace{\frac{1}{3}(x+3)}^{1 \text{ term}} = x + 67 \quad \text{Find LCD} = 9$$

$$\frac{9}{1} \left(-\frac{1}{9} \right) (x-27) + \frac{9}{1} \left(\frac{1}{3} \right) (x+3) = 9x + 9(67)$$

$$\underbrace{-x}_{-9x} + \underbrace{27}_{-36} + \underbrace{3x}_{-9x} + \underbrace{9}_{-36} = 9x + 603$$

$$\begin{array}{rcl} 2x + 36 & = & 9x + 603 \\ -9x & & -9x \end{array}$$

$$\begin{array}{rcl} -7x + 36 & = & 603 \\ -36 & & -36 \end{array}$$

$$\begin{array}{rcl} -7x & = & 567 \\ -7 & & -7 \end{array}$$

$$\boxed{x = -81}$$

Clear decimals

$$\frac{2}{10} \rightarrow 0.2(60) + 0.05x = 0.1(60+x) \quad \text{LCD} = 100$$

$$\overset{20}{100} \overset{5}{\cancel{100}} (0.2) (60) + \overset{10}{\cancel{100}} (0.05) x = \overset{10}{\cancel{100}} (0.1) (60+x)$$

$$\begin{array}{rcl} 1200 + 5x & = & 600 + 10x \\ -10x & & -10x \end{array}$$

$$\begin{array}{rcl} 1200 - 5x & = & 600 \\ -1200 & & -1200 \end{array}$$

$$\begin{array}{rcl} -5x & = & -600 \\ \frac{-5x}{5} & = & \frac{-600}{5} \end{array}$$

$$\boxed{x = -120}$$

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$$\overbrace{-\frac{1}{9}(x-27)}^{1 \text{ term}} + \overbrace{\frac{1}{3}(x+3)}^{1 \text{ term}} = x + 67$$

Find LCD
= 9

$$\cancel{\frac{9}{1}} \left(\cancel{\frac{1}{9}} \right) (x-27) + \cancel{\frac{3}{1}} \left(\frac{1}{3} \right) (x+3) = 9x + 9(67)$$

$$\underbrace{-x}_{\cancel{9x}} + \underbrace{27}_{\cancel{36}} + \underbrace{3x}_{\cancel{9x}} + \underbrace{9}_{\cancel{63}} = 9x + 603$$

$$\begin{array}{r} 2x + 36 = 9x + 603 \\ -9x \quad \quad -9x \end{array}$$

$$\begin{array}{r} -7x + 36 = 603 \\ \quad \quad -36 \quad \quad -36 \end{array}$$

$$\begin{array}{r} -7x = 567 \\ \quad \quad -7 \quad \quad -7 \end{array}$$

$$\boxed{x = -81}$$

Clear decimals

$$\frac{2}{10} \rightarrow 0.2(60) + 0.05x = 0.1(60+x)$$

$\uparrow \frac{5}{100}$ $\uparrow \frac{1}{10}$ LCD = 100

$$\begin{array}{ccc} 20 & & 10 \\ \downarrow & & \downarrow \\ 100(0.2)(60) + 100(0.05)x = 100(0.1)(60+x) \end{array}$$

$$\begin{array}{r} 1200 + 5x = 600 + 10x \\ \quad \quad -10x \quad \quad -10x \end{array}$$

$$\begin{array}{r} 1200 - 5x = 600 \\ -1200 \quad \quad -1200 \end{array}$$

$$\begin{array}{r} -5x = -600 \\ \quad \quad \quad \frac{-5x}{5} = \frac{-600}{5} \end{array}$$

$$\boxed{x = -120}$$