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LCD: $5(x+2)$

$$(6) \quad \frac{9}{5x+10} \cdot 5(x+2) = \left| \begin{array}{c} \frac{9}{x+2} \cdot \frac{5(x+2)}{1} \\ \downarrow \end{array} \right| - \left| \begin{array}{c} \frac{3}{5} \cdot \frac{5(x+2)}{1} \\ \downarrow \end{array} \right| \quad \left\{ \begin{array}{l} x+2=0 \\ x \neq -2 \end{array} \right.$$

$$9 = 45 - 3(x+2)$$

$$9 = 45 - 3x - 6$$

$$\begin{array}{r} 9 = -3x + 39 \\ -39 \hline -30 \end{array}$$

$$\begin{array}{r} -30 = -3x \\ \hline -3 \end{array}$$

$$10 = x$$

$$\begin{array}{r} x-3=0 \text{ or } x+7=0 \\ +3 +3 \hline x+3 \end{array} \quad \begin{array}{r} -7 -7 \hline x+7 \end{array}$$

LCD: $(x-3)(x+7)$

$$(7) \quad \left| \begin{array}{c} \frac{1}{x-3} \cdot (x+7) \\ \downarrow \end{array} \right| - \left| \begin{array}{c} \frac{3}{x+7} \cdot (x-3)(x+7) \\ \downarrow \end{array} \right| = \left| \begin{array}{c} \frac{10}{x^2+4x-21} \cdot (x-3)(x+7) \\ \downarrow \end{array} \right|$$

$$x+7 - 3(x-3) = 10$$

$$x+7 - 3x + 9 = 10$$

$$\begin{array}{r} -2x + 16 = 10 \\ -16 -16 \end{array}$$

$$\begin{array}{r} -2x = -6 \\ \hline -2 -2 \end{array}$$

$$x = +3$$

No Solution