LCD: $5(x+2)$

(6) $\frac{9}{5x+10} \cdot 5(x+2) = \frac{9}{x+2} \cdot \frac{5(x+2)}{1} - \frac{3}{5} \cdot \frac{5(x+2)}{1}$

$x+2=0$
$x \neq -2$

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

$9 = 45 - 3x - 6$

$9 = -3x + 39$

$-39 \quad -39$

$-30 = -3x$

$\frac{-30}{-3} = \frac{-3x}{-3}$

$10 = x$

$x-3=0$ or $x+7=0$

$+3 \quad +3 \qquad -7 \quad -7$

$x \neq 3 \qquad x \neq -7$

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

(7) $\frac{1}{x-3} \cdot (x-3)(x+7) - \frac{3}{x+7} \cdot (x-3)(x+7) = \frac{10}{x^2+4x-21} \cdot (x-3)(x+7)$

$\frac{10}{(x-3)(x+7)}$

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

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

$-2x+16 = 10$

$-16 \quad -16$

$\frac{-2x}{-2} = \frac{-6}{-2}$

$x = +3$

NO Solution