

$$\begin{aligned}
 \text{b) } & \frac{2}{x} - \left(\frac{x-2}{x+1} \div \frac{x-3}{x+1} \right) && x \neq 0, -1, 3 \\
 & = \frac{2}{x} - \left(\frac{x-2}{x+1} \cdot \frac{x+1}{x-3} \right) \\
 & = \frac{2}{x} - \frac{(x-2)(\cancel{x+1})}{(\cancel{x+1})(x-3)} \\
 & = \frac{2}{x} - \frac{x-2}{x-3} && \text{LCD} = x(x-3) \\
 & = \frac{2(x-3) - (x-2)(x)}{x(x-3)} \\
 & = \frac{(2x-6) - (x^2-2x)}{x(x-3)} && -x^2 + 4x - 6 \\
 & = \frac{-x^2 + 4x - 6}{x(x-3)}, x \neq 0, 3, -1 && = -[x^2 - 4x + 6] \\
 & && \begin{array}{l} S -4 \\ P 6 \\ I \times \end{array}
 \end{aligned}$$

Mar 21-10:22 AM

Homework:

p.68 # 10aceg, 14adf

Additional questions:

$$1) \frac{3x}{x^2 + 3x + 2} - \frac{4x}{x^2 + 5x + 6} + \frac{5x}{x^2 + 4x + 3}$$

$$2) \frac{x-2}{6x^2 - 7x - 5} \div \frac{2x}{3x^2 - 5x} - \frac{3x+2}{2x^2 + 11x + 5}$$

Mar 20-11:27 PM