

$$\begin{aligned} & \frac{(x+3) \frac{(x-1)}{x^2+3x+2} + \frac{x+5}{x^2+4x+3} (x+2)}{(x+3) \frac{(x+2)(x+1)}{x^2+2x-3} + \frac{(x+3)(x+1)(x+2)}{(x+3)(x+1)(x+2)}} & \frac{4-a^2}{a^2-9} - \frac{a-2}{3-a} & -a^2+4 \\ & \frac{(2x+1)(x+7)}{(x+2)(x+1)(x+3)} & \frac{-(a^2-4)}{a^2-9} + \frac{a-2}{-(a-3)} & \frac{(a+3)}{(a+3)} \\ & \frac{2x^2+9x+7}{(x+2)(x+1)(x+3)} & \frac{(a+3)(a-3)}{(a-3)} & \frac{(a+3)}{(a+3)} \\ & & \frac{-a^2+4}{(a+3)(a-3)} + \frac{a^2+a-6}{(a+3)(a-3)} & \end{aligned}$$

$$\frac{(x-2) \cdot 1}{(x-2)(x+1)} - \frac{(x)(x+1)}{(x-2)(x+1)} \frac{x^2+2}{x^2-x-2}$$

$$\frac{x-2}{(x+1)(x-2)} - \frac{x^2+x}{(x+1)(x-2)} + \frac{x^2+2}{(x+1)(x-2)}$$

$$\frac{0}{(x+1)(x-2)} = 0$$

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

$$\frac{2x^2+8x+6}{(x-3)(x-2)(x+1)(x+3)} - \frac{4x^2+4x-24}{(x-3)(x-2)(x+1)(x+3)} + \frac{2x^2-10x+12}{(x-3)(x-2)(x+1)(x+3)}$$