

$$\frac{5x+3}{(x-1)(x-3)} = \frac{-4}{x-1} + \frac{9}{x-3}$$

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

$$\frac{2}{x^3-x} = \frac{-2}{x} + \frac{1}{x-1} + \frac{1}{x+1}$$

$$\frac{20x^2}{(x+2)(x+1)(x-3)} = \frac{16}{x+2} - \frac{5}{x+1} + \frac{9}{x-3}$$

$$\frac{x^2+x-6}{(x+2)(x+1)(x-2)} = \frac{2}{x+1} - \frac{1}{x+2}$$

$$\frac{4x+5}{x^3-2x^2+x} = \frac{5}{x} - \frac{5}{x-1} + \frac{9}{(x-1)^2}$$

$$\frac{2x+1}{x^3+x} = \frac{1}{x} + \frac{-x+2}{x^2+1}$$

$$\frac{2x^2+2}{(x-1)(x^2+3)} = \frac{1}{x-1} + \frac{x+1}{x^2+3}$$

$$\frac{2x^2+10}{(x-1)(x^2-4x+5)} = \frac{6}{x-1} + \frac{-4x+20}{x^2-4x+5}$$