

## Lineární rovnice s neznámou ve jmenovateli

$$1) \frac{2x+1}{x-1} + \frac{x+1}{x-1} = \frac{11}{2} \quad [3]$$

$$2) \frac{x-1}{x-2} + \frac{x-3}{x-4} = 2 \quad [3]$$

$$3) 5 + \frac{3}{3x-12} = \frac{5-x}{x-4} \quad [\mathbf{R}\{-4\}]$$

$$4) \frac{4x-1}{x-2} + 2 = 1 - \frac{5x-3}{2-x} \quad [\mathbf{R}\{-2\}]$$

$$5) \frac{2x-1}{x-3} - 5 = \frac{x+2}{3-x} \quad [8]$$

$$6) \frac{2x-5}{3x-4} - \frac{4x-5}{6x-1} = 0 \quad [-15]$$

$$7) \frac{2x-1}{2x+1} = \frac{2x+1}{2x-1} + \frac{8}{1-4x^2} \quad [1]$$

$$8) \frac{6}{x+2} + \frac{x+2}{2-x} + \frac{x^2}{x^2-4} = 0 \quad [8]$$

$$9) \frac{x+1}{x-1} + \frac{2}{x+2} - 1 = \frac{6}{x^2+x-2} \quad [0]$$

$$10) \frac{x+3}{x+1} + \frac{x+2}{x-3} = 2 + \frac{8x-3}{x^2-2x-3} \quad [2]$$

$$11) 1 + \frac{2x}{x+4} + \frac{27}{2x^2+7x-4} = \frac{6}{2x-1} \quad [-1/3]$$

$$12) \frac{3}{x-3} + \frac{5}{x-5} = \frac{34}{x^2-8x+15} \quad [8]$$

$$13) \frac{2x}{x+3} - \frac{2x}{x-3} = \frac{72}{4x^2-36} \quad [-\frac{3}{2}]$$

$$14) \frac{3+4x}{x^2+x} - 1 = \frac{3}{x} - \frac{x}{x+1} \quad [\mathbf{R}\{-1,0\}]$$

$$15) \frac{12x^2+30x-21}{16x^2-9} = \frac{3x-7}{3-4x} + \frac{6x+5}{4x-3} \quad [3]$$

$$16) \frac{\frac{2}{3}}{\frac{2}{3}+x} - \frac{2}{3} = \frac{2}{3} - \frac{\frac{3}{2}x - \frac{2}{3}}{\frac{2}{3}+x} \quad [16/3]$$

$$17) \frac{\frac{2}{3}x - \frac{1}{3}}{\frac{3}{2}x - 1} + \frac{\frac{5}{3}x - \frac{4}{3}}{x - \frac{2}{3}} = 2 \quad [2]$$