

Rovnice s neznámou ve jmenovateli

Určete podmínky a řešte rovnice s neznámou ve jmenovateli:

$$1) \frac{3}{4x} = \frac{4}{5}$$

$$7) \frac{x-1}{2x-3} = \frac{2x+3}{4x+3}$$

$$2) \frac{3+x}{3-x} = \frac{5}{3}$$

$$8) \frac{x+1}{x+3} = \frac{x+5}{x+9}$$

$$3) \frac{x}{x+9} = \frac{4}{7}$$

$$9) 2 - \frac{3}{x+3} = \frac{5x+12}{x+3}$$

$$4) \frac{2x+21}{3x-16} = \frac{4x+7}{6x-37}$$

$$10) \frac{x-2}{1-0,5x} = -2$$

$$5) \frac{x-3}{x-7} = \frac{x-9}{x-11}$$

$$11) \frac{2x}{x-1} = 1 + \frac{2}{x-1}$$

$$6) \frac{8}{7x-5} = \frac{3}{2x+5}$$

$$12) \frac{x+2}{2(x-1)} - \frac{2x}{3(x-1)} = \frac{1}{24}$$