

Řeš rovnici, proved' zkoušku a urči podmínky řešitelnosti:

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

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

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

$$4) \frac{2}{u} - \frac{5}{6} = \frac{2}{3u} + 0,5$$

$$5) \frac{3y+1}{2(y-1)} = 2$$

$$6) \frac{3}{4x-7} - \frac{1}{5(x+1)} = 0$$

$$7) \frac{u+22}{u+12} = \frac{2u+9}{2u+3}$$

$$8) \frac{10+z}{2z} - \frac{3}{2} = 0$$

$$9) \frac{2z-1}{z-4} = \frac{3}{5}$$

$$10) \frac{x+1}{-x+1} = -\frac{2}{3}$$

$$11) \frac{x+2}{x+3} + \frac{2-x}{x-3} = \frac{5}{x^2-9}$$

$$12) \frac{t+3}{4} - \frac{3}{t+3} = \frac{2t-3}{8}$$

Výsledky:

$$1)x = -\frac{1}{3}; 2)z = \frac{7}{4}; 3)x = 6; 4)u = 1; 5)y = 5; 6)x = -2;$$

$$7)u = 3; 8)z = 5; 9)z = -1; 10)x = -5; 11)x = \frac{-5}{2}; 12)t = -\frac{1}{3}$$