

Yler ☺

Mg

Primeri rovnice s nerovnicou se jmenovateli

od H. 1.

$$\textcircled{1} \quad \frac{3}{x} + \frac{1}{x} + \frac{2}{x} = 1 \quad x \neq 0$$

$$3 + 1 + 2 = x$$

$$x = 6$$

$$L = \frac{3}{6} + \frac{1}{6} + \frac{2}{6} = \frac{6}{6} = 1$$

$P = 1$

$$L = P$$

$$(2) \quad \frac{1}{x+6} = \frac{5}{5x-2} \quad \begin{array}{l} x+6 \\ x+\frac{2}{5} \end{array} \quad | \cdot (x+6) \cdot (5x-2)$$

$$5x - 2 = 5 \cdot (x + 6)$$

$$5x - 2 = 5x + 30$$

$$5x - 5x = 30 + 2$$

$$O_x = 32$$

Нема рѣшѣ.

$$\textcircled{3} \quad \frac{1}{x+1} - \frac{2}{x+4} = 0 \quad \begin{array}{l} x \neq -1 \\ x \neq -4 \end{array} \quad \cdot (x+1) \cdot (x+4)$$

$$x+4 - 2 \cdot (x+1) = 0$$

$$x + 4 - 2x - 2 = 0$$

$$x - 2x = -4 + 2$$

$$-x = -2$$

$$X = 2$$

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

$$= \frac{1}{3} - \frac{2}{6} = \frac{1}{3} - \frac{1}{3} = 0$$

$$P = 0$$

$$L = p$$

$$\textcircled{4} \quad \frac{1}{x-1} = \frac{2}{x+1} \quad \begin{array}{l} x \neq 1 \\ x \neq -1 \end{array}$$

$$x+1 = 2 \cdot (x-1)$$

$$x + 1 = 2x - 2$$

$$x - 2x = -2 - 1$$

$$-x = -3$$

$$x = 3$$

$$L = \frac{1}{3-1} = \left(\frac{1}{2}\right)$$

$$r = \frac{2}{3+1} = \frac{2}{4} = \left(\frac{1}{2}\right)$$

$$L = P$$

5

$$\frac{3}{x-3} - \frac{7}{x+3} = \frac{10}{x^2-9} \quad \begin{matrix} x \neq 3 \\ x \neq -3 \end{matrix}$$

$$\frac{3}{x-3} - \frac{7}{x+3} = \frac{10}{(x+3) \cdot (x-3)} \quad | \cdot (x+3) \cdot (x-3)$$

$$3 \cdot (x+3) - 7 \cdot (x-3) = 10$$

$$3x + 9 - 7x + 21 = 10$$

$$3x - 7x = 10 - 9 - 21$$

$$-4x = -20$$

$$x = -20 : (-4)$$

$$\boxed{x=5}$$

$$\text{zh: } L = \frac{3}{5-3} - \frac{7}{5+3} = \frac{3}{2} - \frac{7}{8} = \frac{12-7}{8} = \left(\frac{5}{8}\right)$$

$$P = \frac{10}{5^2-9} = \frac{10}{16} = \left(\frac{5}{8}\right)$$

$$L=P$$

6

$$\frac{17}{a+1} - \frac{5}{a^2+a} = \frac{6}{a} \quad \begin{matrix} a \neq -1 \\ a \neq 0 \end{matrix}$$

$$\frac{17}{a+1} - \frac{5}{a \cdot (a+1)} = \frac{6}{a} \quad | \cdot a \cdot (a+1)$$

$$17a - 5 = 6 \cdot (a+1)$$

$$17a - 5 = 6a + 6$$

$$17a - 6a = 6 + 5$$

$$11a = 11$$

$$\boxed{a=1}$$

$$\text{zh: } L = \frac{17}{1+1} - \frac{5}{1^2+1} = \frac{17}{2} - \frac{5}{2} = \frac{12}{2} = 6$$

$$P = \frac{6}{1} = 6$$

$$L=P$$

.... ve št. čl. št. ... 66/15, 16, 17 ... když a tam
vdalo příkladu málo ...
😊