113/1c

$$\frac{x+10}{x+7} = 2 + \frac{3}{x+7}$$

$x \neq -7$

$/ \cdot (x+7)$

$$x+10 = 2(x+7) + 3$$
$$x+10 = 2x+14+3$$
$$x-2x = -10+14+3$$
$$-x = 7$$
$$x = -7$$

nyde.

Proto rovnice nemá řešení.

113/1f

$$\frac{1}{x+4} + \frac{1}{3x} = \frac{1}{\underbrace{3x+12}_{3(x+4)}}$$

$x \neq -4$

$x \neq 0$

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

$$3x + x + 4 = x$$
$$3x = -4$$
$$x = -\frac{4}{3}$$

24 L: $\frac{1}{-\frac{5}{3}+4} + \frac{1}{3\cdot(-\frac{5}{3})} =$

$= \frac{1}{\frac{-5+12}{3}} + \frac{1}{-5} = \frac{1}{\frac{7}{3}} - \frac{1}{5} =$

$= \frac{3}{7} - \frac{1}{5} = \frac{3-2}{7} = \frac{1}{7}$

L = P

P: $\frac{1}{3\cdot(-\frac{5}{3})+12} = \frac{1}{-5+12} = \frac{1}{7}$

113/i)

$\frac{n}{n-5} + \frac{10}{\underbrace{n^2-10n+25}_{(n-5)^2}} = 1$ $\quad n \neq 5$

$\frac{n(n-5)+10}{(n-5)\cdot(n-5)} = \frac{(n-5)\cdot(n-5)}{(n-5)(n-5)}$

$n^2 - 5n + 10 = n^2 - 10n + 25$

$-5n + 10n = -10 + 25$

$5n = 15$

$n = 3$

24:

$$L: \frac{3}{3-5} + \frac{10}{3^2-10\cdot 3+25} = \frac{3}{-2} + \frac{10}{9-30+25} =$$

$$= -\frac{3}{2} + \frac{10}{4} = \frac{-6+10}{4} = \frac{4}{4} = 1$$

$P: 1$

$L = P$