Úprava lomených výrazů

$$\left(x+1+\frac{1}{x-1}\right):\left(1+\frac{1}{x^2-1}\right)=$$

$$\left(\frac{1}{a+1}-\frac{2a}{a^2-1}\right)\cdot\left(\frac{1}{a}-1\right)=$$

$$\frac{3-27a}{a+2}:\frac{18a^2-2a}{2a+4}=$$

$$\left(\frac{a}{b}-\frac{a+1}{b+1}\right):\frac{a^2-b^2}{b+1}=$$

$$\frac{x^2-6x+9}{3y-12}:\frac{x^2-9}{y-4}=$$

$$\frac{a+1}{a-1}-\frac{a-1}{a+1}=$$

$$\frac{m-2}{m+2}+\frac{8m}{m^2-4}=$$

$$\left[\frac{3\cdot(a-1)}{a-2}-1\right]:\left(1-\frac{3a^2+3}{4-a^2}\right)=$$

$$\frac{6x^2-24}{6x^2+24x+24}=$$

$$\left(1-\frac{2}{a+1}\right)\cdot\left(1-\frac{2}{1-a}\right)=$$

$$\frac{xy+x^2}{2xy}\cdot\frac{2y^2-2xy}{x^2-y^2}=$$

$$\left(\frac{p-1}{p-2}-\frac{p}{p-1}\right)\cdot\left(p-\frac{p}{p+1}\right)\cdot\left(p^2-1\right)=$$

$$\left(a-\frac{b^2}{a}\right):\left(\frac{2ab^2+b^3}{ab}+a\right)=$$

$$\frac{2\cdot(x+2)^2}{4x^2-16}=$$

$$\left(\frac{r}{r-2}-2\right):\frac{16-r^2}{r^2-4r+4}=$$

$$\frac{xy+y^2}{-x^2+xy}:\frac{x^2+xy}{(x-y)^2}=$$

$$\left(1-\frac{1}{a^2}\right)\cdot\left(\frac{a}{a+1}-a\right)=$$

$$\left(\frac{2x}{2x+6}+\frac{x}{x^2-9}\right)\cdot\frac{2}{(x-9)^2}=$$

$$\frac{p^2+2p+1}{p^2-1}:\frac{p+1}{p-1}=$$

$$\left(\frac{-xy}{x-y}-x\right)\cdot\frac{y-x}{x}=$$

$$\left(\frac{4x^2}{4x^2-9}-1\right):\frac{12x^2-36x+27}{12x+4x^2+9}=$$

$$\frac{x+y}{x-y}-\frac{x+y}{y-x}\cdot\frac{a-2x}{2y+2x}=$$

$$\frac{ab+2+2a+b}{b^2+4b+4}:\frac{a^2+a}{b+2}=$$

$$\frac{5x^2+5xy}{xy+y^2}:\frac{y^3-yx^2}{xy^2}=$$

$$\left(\frac{a}{a-2}-2\right)\cdot\frac{a^2+4a+4}{a^2-16}=$$

$$\frac{m^2-4m+4}{16-m^2}\cdot\left(\frac{m}{m-2}-2\right)=$$