Dělení lomených výrazů

1) $\frac{(x+y)^2}{x^2-y^2}:\frac{x+y}{x-y}=[1, x\neq y, x\neq -y]$

2) $\frac{r+3}{r-3}:\frac{r^2+3r}{2r^2-18}=\left[\frac{2r+6}{r}, r\neq 0, r\neq 3, r\neq -3\right]$

3) $\frac{2.(a+b)}{3a-3b}:\frac{6a+6b}{a^2-ab}=\left[\frac{a}{9}, a\neq b, a\neq 0, a\neq -b\right]$

4) $\left(\frac{x+1}{x+2}-\frac{x-1}{x-2}\right):\frac{2x}{4-x^2}=[1, x\neq 0, x\neq 2, x\neq -2]$

5) $\frac{5a^2+10a}{4a^2}.\frac{4-2a}{a^2-4}=\left[-\frac{5}{2a}, a\neq 0, a\neq 2, a\neq -2\right]$

6) $x-u+\frac{u^2}{x+u}=\left[\frac{x^2}{x+u}, x\neq -u\right]$

7) $\left(\frac{1}{x}+\frac{1}{y}\right):\left(\frac{1}{2x}+\frac{1}{2y}\right)=[2, x\neq 0, x\neq -y, y\neq 0]$

8) $\left(\frac{c^2+d^2}{c}-2d\right):\left[\left(\frac{1}{d^2}-\frac{1}{c^2}\right).\frac{cd}{c+d}\right]=[cd-d^2, c\neq 0, d\neq 0, c\neq d, c\neq -d]$

9) $\frac{1-y^2}{y^2}:\left(1-\frac{1}{y}\right)=\left[\frac{-y-1}{y}, y\neq 0, y\neq 1\right]$

10) $\frac{\frac{1}{p}+\frac{1}{q}}{\frac{p+q}{pq}}=[1, p\neq 0, q\neq 0, p\neq -q]$

11) $\frac{z-\frac{4}{z}}{z+2}=\left[\frac{z-v}{z}, z\neq 0, z\neq -2\right]$

12) $\frac{\frac{1+h}{2k}}{\frac{h^2-1}{5k}}=\left[\frac{5}{2(h-1)}, k\neq 0, h\neq 1, h\neq -1\right]$

13) $\frac{1+\frac{m}{n}}{n-\frac{m^2}{n}}=\left[\frac{1}{n-m}, n\neq 0, n\neq m, n\neq -m\right]$