Lomené výrazy

Násobení

Zadání	Výsledek
1) $\frac{3a}{a+2} \cdot \frac{a^2-4}{6a^2} =$	$\frac{a-2}{2a}$
2) $\frac{x^2-y^2}{4x} \cdot \frac{2x^2}{x+y} =$	$\frac{x(x-y)}{2}$ nebo $\frac{x^2-xy}{2}$
3) $\frac{2b-4}{b^2-9} \cdot \frac{b+3}{b-2} =$	$\frac{2}{b-3}$
4) $\frac{y^2+2y+1}{3y-6} \cdot \frac{6}{y+1} =$	$\frac{2(y+1)}{y-2}$ nebo $\frac{2y+2}{y-2}$
5) $\frac{c^2-d^2}{c^2+cd} \cdot \frac{c}{c-d} =$	1
6) $\frac{5x-10}{x^2-16} \cdot \frac{x+4}{15} =$	$\frac{x-2}{3x-12}$
7) $\frac{a^2-2ab+b^2}{a+b} \cdot \frac{a^2-b^2}{(a-b)^2} =$	$a-b$
8) $\frac{4u^2-1}{2u+6} \cdot \frac{u+3}{2u+1} =$	$\frac{2u-1}{2}$
9) $\frac{x^2-4x+4}{x^2-4} \cdot \frac{3x+6}{x-2} =$	3
10) $\frac{k+5}{2k-8} \cdot \frac{k^2-16}{k^2+5k} =$	$\frac{k+4}{2k}$
11) $\frac{3m-3n}{m^2+2mn+n^2} \cdot \frac{m+n}{6} =$	$\frac{m-n}{2m+2n}$
12) $\frac{z^2-25}{5z} \cdot \frac{10z^2}{z+5} =$	$2z(z-5)$
13) $\frac{5a+5b}{15a} \cdot \frac{3a^2}{a+b} =$	a

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14)	$\frac{a^2 - n^2}{(a+n)^2} \cdot \frac{4a+4n}{5(a-n)} =$	$\frac{4}{5}$
15)	$\frac{2x^2+8x+8}{x-2} \cdot \frac{x^2-4}{4(x+2)} =$	$\frac{x^2+4x+4}{2}$
16)	$\frac{a^2-4}{1-a^2} \cdot \frac{2b}{a-2} \cdot \frac{1-a^2}{ab+2b} =$	2
17)	$\frac{z^2-1}{z^2+2z+1} \cdot \frac{3z+3}{4z-4} =$	$\frac{3}{4}$
18)	$\frac{ax^2-ay^2}{(a+b)^2} \cdot \frac{3a+3b}{ax^2-2axy+ay^2} =$	$\frac{3x+3y}{ax-ay+bx-bx}$
19)	$\frac{a^2-4b^2}{a^3-a^2b} \cdot \frac{a-b}{a^2+2ab} =$	$\frac{a-2b}{a^3}$
20)	$\frac{5-5x}{1+x} \cdot \frac{3+3x}{10-10x} =$	$\frac{3}{2}$
21)	$\frac{4u-4v}{2uv} \cdot \frac{u^2}{u^2-uv} =$	$\frac{4u-4v}{2uv-uv^2}$
22)	$\frac{m^2-mn}{m^2+mn} \cdot \frac{m^2n+mn^2}{mn} =$	m-n
23)	$\frac{r^2-9}{r+1} \cdot \frac{r^2-1}{r-3} =$	r^2+2r-3
24)	$\frac{2a^2}{a^2b+ab^2} \cdot \frac{ab+b^2}{2a-4} =$	$\frac{a}{a-2}$
25)	$\frac{p^2+pq}{5p^2-5q^2} \cdot \frac{p^2q-q^3}{2p^2-2p} =$	$\frac{pq+q^2}{10p-10}$
26)	$\frac{9x-12}{1} \cdot \frac{3x+2}{3x-4} =$	$9x+6$
27)	$\frac{p^2-r^2}{p^2+pr} \cdot \frac{p-r}{(r-p)^2} =$	$\frac{1}{p}$
28)	$(m^2-n^2) \cdot \frac{m-n}{m+n} =$	$m^2-2mn+n^2$
29)	$\frac{3p-1}{p+3} \cdot \frac{3r+pr}{1-3p} =$	$-r$

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