

Lösungen:

		Punkte
1	<p>Bitte berechnen Sie</p> <p>a) $-\frac{\frac{-9}{5} * \frac{-6}{7} * \frac{3}{10} * \frac{5}{-6}}{\frac{4}{-5} * \frac{10}{-3} * \frac{1}{10} * \frac{-9}{2}}$</p> <p>b) $\frac{\frac{2}{-5} * \frac{1}{-6} * \frac{-5}{-4} * \frac{9}{-8} * \frac{-9}{5} * \frac{-3}{5}}{\frac{-5}{-4} * \frac{-9}{-2} * \frac{2}{-7} * \frac{8}{-3} * \frac{3}{10} * \frac{-9}{5}}$</p> <p>c) $\frac{(-\frac{5}{-2} - \frac{1}{3}) * \frac{8}{-9}}{(-\frac{9}{-2} - \frac{7}{-10}) * \frac{-3}{10}}$</p> <p>d) $\frac{(-\frac{3}{2} + \frac{1}{4} - \frac{5}{4} + \frac{4}{5}) * (-\frac{-3}{2} - \frac{5}{2} - \frac{1}{2} - \frac{-2}{-3})}{(\frac{-5}{3} + \frac{5}{-4} + \frac{-2}{3} + \frac{-1}{-3}) * (-\frac{-1}{-3} + \frac{-1}{-4} + \frac{1}{4} + \frac{-2}{3})}$</p>	8
2	<p>Bitte kürzen Sie soweit wie möglich</p> <p>a) $\frac{14a^2oswy^2 + 77a^2orw - 28a^2ow}{-49a^2ov^2w + 21a^2c^2jovw + 63a^2ors^2w}$</p> <p style="text-align: center;">L:</p> $\frac{14a^2oswy^2 + 77a^2orw - 28a^2ow}{-49a^2ov^2w + 21a^2c^2jovw + 63a^2ors^2w} = \frac{2sy^2 + 11r - 4}{-7v^2 + 3c^2jv + 9rs^2} [7a^2ow]$ <p>b) $\frac{-6ap + 12a}{66au - 24a}$</p> <p style="text-align: center;">L:</p> $\frac{-6ap + 12a}{66au - 24a} = \frac{-p + 2}{11u - 4} [6a]$ <p>c) $\frac{-33v^2 + 22mv - 77sv}{55v^2 - 33mv - 99v}$</p> <p style="text-align: center;">L:</p> $\frac{-33v^2 + 22mv - 77sv}{55v^2 - 33mv - 99v} = \frac{-3v + 2m - 7s}{5v - 3m - 9} [11v]$	6

3	Bitte berechnen Sie	6
	a)	
	$\frac{-4bj + 11}{-4r + 1} + \frac{-7k - 10}{-11u - 4b}$	
	L :	
	$\frac{-4bj + 11}{-4r + 1} + \frac{-7k - 10}{-11u - 4b} = \frac{44bju + 16b^2j - 121u - 44b + 28kr + 40r - 7k - 10}{44ru + 16br - 11u - 4b}$	
	b)	
	$\frac{-4hq + 9}{-p - 2} - \frac{-2e - 1}{-6gm - 11}$	
	L :	
	$\frac{-4hq + 9}{-p - 2} - \frac{-2e - 1}{-6gm - 11} = \frac{-101 + 24ghmq + 44hq - 54gm - 2ep - p - 4e}{6gmp + 11p + 12gm + 22}$	
	c)	
	$\frac{11ry - 3}{3bg - 1} - \frac{-k + g}{-9js - 11dy}$	
	L :	
	$\frac{11ry - 3}{3bg - 1} - \frac{-k + g}{-9js - 11dy} = \frac{-99jrsy - 121dry^2 + 27js + 33dy + 3bgk - 3bg^2 - k + g}{-27bgjs - 33bdgy + 9js + 11dy}$	