

Lösungen:

		Punkte
1	<p>Bitte kürzen Sie soweit wie möglich</p> <p>a)</p> $\frac{10k^2n + 25k^2}{40k^2r + 55k^2m^2x^2y - 20k^2}$ $L: \frac{10k^2n + 25k^2}{40k^2r + 55k^2m^2x^2y - 20k^2} = \frac{2n + 5}{8r + 11m^2x^2y - 4} [5k^2]$ <p>b)</p> $\frac{12d^2f^2p^2 + 2f^2}{28b^2f^2p - 22f^2nq^2r + 6bf^2p^2q}$ $L: \frac{12d^2f^2p^2 + 2f^2}{28b^2f^2p - 22f^2nq^2r + 6bf^2p^2q} = \frac{6d^2p^2 + 1}{14b^2p - 11nq^2r + 3bp^2q} [2f^2]$ <p>c)</p> $\frac{180ci^2t^2w^2 - 12ct^2}{-96cgr^2t^2 - 60cdt^2}$ $L: \frac{180ci^2t^2w^2 - 12ct^2}{-96cgr^2t^2 - 60cdt^2} = \frac{15i^2w^2 - 1}{-8gr^2 - 5d} [12ct^2]$	6
2	<p>Bitte bringen Sie den Ausdruck in die Form $(\square \pm \square)(\square \pm \square)$</p> <p>a) $7ov - 28vx + 10o - 40x$ L: $(7v + 10)(o - 4x)$</p> <p>b) $13az - 15z - 39a + 45$ L: $(z - 3)(13a - 15)$</p>	4
3	<p>Bitte berechnen Sie</p> <p>a)</p> $\frac{\left(\frac{7}{-9} - \frac{7}{-2}\right) * \frac{-5}{-7}}{\left(-\frac{1}{8} - \frac{8}{-3}\right) * \frac{-1}{-3}}$ $L: \frac{140}{67}$ <p>b)</p> $\frac{\left(-\frac{4}{5} - \frac{5}{2}\right) * \left(\frac{-3}{-2} - \frac{3}{2}\right)}{\left(\frac{2}{3} + \frac{2}{-7}\right) * \left(-\frac{3}{-4} - \frac{4}{-3}\right)}$ $L: 0$ <p>c)</p> $\frac{\frac{3}{-2} * \frac{7}{9} * \frac{9}{5} * \frac{-4}{-3}}{\frac{-2}{5} * \frac{-8}{-5} * \frac{10}{3} * \frac{-6}{-5}}$ $L: \frac{35}{32}$	6

4	Bitte berechnen Sie	4
	a)	
	$\frac{g - 1}{-3v - 4} + \frac{t + 8e}{5o - 3x}$ $L : \frac{g - 1}{-3v - 4} + \frac{t + 8e}{5o - 3x} = \frac{5go - 3gx - 5o + 3x - 3tv - 24ev - 4t - 32e}{-15ov + 9vx - 20o + 12x}$	
	b)	
	$\frac{2g - 5t}{u - 2} - \frac{-3r + 14}{x - 1}$ $L : \frac{2g - 5t}{u - 2} - \frac{-3r + 14}{x - 1} = \frac{2gx - 2g - 5tx + 5t + 3ru - 14u - 6r + 28}{ux - u - 2x + 2}$	