

Lösungen:

		Punkte
1	<p>Bitte kürzen Sie</p> <p>a)</p> $\frac{-9cntvy - 4tvty^2 - 2tvty}{-2btvy^2 - 3notvy + 8dtvyz}$ <p style="text-align: center;">L :</p> $\frac{-9cntvy - 4tvty^2 - 2tvty}{-2btvy^2 - 3notvy + 8dtvyz} = \frac{-9cn - 4y - 2}{-2by - 3no + 8dz} \quad [tvty]$ <p>b)</p> $\frac{50oqy - 40cnowy + 90oy}{30jmoy + 10oqxy}$ <p style="text-align: center;">L :</p> $\frac{50oqy - 40cnowy + 90oy}{30jmoy + 10oqxy} = \frac{5q - 4cnw + 9}{3jm + qx} \quad [10oy]$	4
2	<p>Bitte berechnen Sie</p> <p>a)</p> $\frac{-2fg + ou}{-8p - 3} + \frac{7hx + 9m}{-9g - 8}$ <p style="text-align: center;">L :</p> $\frac{-2fg + ou}{-8p - 3} + \frac{7hx + 9m}{-9g - 8} = \frac{18fg^2 + 16fg - 9gou - 8ou - 56hpx - 72mp - 21hx - 27m}{72gp + 64p + 27g + 24}$ <p>b)</p> $\frac{-7cz + 8e}{-2j - 9rt} - \frac{-4mn + ez}{g - 2}$ <p style="text-align: center;">L :</p> $\frac{-7cz + 8e}{-2j - 9rt} - \frac{-4mn + ez}{g - 2} = \frac{-7cgz + 14cz + 8eg - 16e - 8jmn + 2ejz - 36mnrt + 9ertz}{-2gj + 4j - 9grt + 18rt}$	4
3	<p>Bitte berechnen Sie</p> <p>a)</p> $\left(\frac{9}{8} : \left(\frac{8}{7} : \frac{2}{5} \right) \right) : \frac{9}{2} \quad \text{L:} \quad \frac{7}{80}$ <p>b)</p> $\frac{1}{2} : \left(\left(\frac{6}{7} : \frac{2}{3} \right) : \frac{1}{3} \right) \quad \text{L:} \quad \frac{7}{54}$ <p>c)</p> $(8 : (9 : 9)) : 2 \quad \text{L:} \quad 4$	6

4	<p>Bitte berechnen Sie</p> <p>a)</p> $\frac{\left(-\frac{7}{8} - \frac{1}{3}\right) * \frac{5}{-3}}{\left(-\frac{4}{5} + \frac{4}{5}\right) * \frac{5}{9}}$ <p style="padding-left: 40px;">L:</p> $\frac{145}{64}$ <p>b)</p> $\frac{\left(-\frac{8}{9} - \frac{-1}{6}\right) * \left(\frac{-9}{-8} + \frac{-10}{3}\right)}{\left(\frac{5}{9} - \frac{1}{-2}\right) * \left(-\frac{1}{-4} + \frac{1}{4}\right)}$ <p style="padding-left: 40px;">L:</p> $-\frac{53}{12}$ <p>c)</p> $\frac{\frac{1}{5} * \frac{7}{-4} * \frac{-3}{-10} * \frac{1}{-6}}{\frac{9}{4} * \frac{8}{9} * \frac{2}{9} * \frac{-3}{8}}$ <p style="padding-left: 40px;">L:</p> $-\frac{21}{200}$	6
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