

Abgabe: 17.9.2010

Name:

1	<p>Bitte berechnen Sie die Unbekannten</p> <p>a) $\frac{-\frac{10}{9}}{\frac{5}{9}x + 2} + 3 = -17$</p> <p>b) $\frac{-2}{-\frac{5}{7}q - \frac{4}{5}} - \frac{9}{5} = -\frac{871}{95}$</p> <p>c) $\frac{\frac{4}{5}}{\frac{3}{5}d + \frac{1}{10}} + \frac{9}{8} = \frac{127}{56}$</p> <p>d) $\frac{\frac{1}{10}a - \frac{7}{8}}{-\frac{8}{3}a - \frac{5}{2}} + \frac{1}{4} = \frac{66}{265}$</p> <p>e) $\frac{\frac{4}{3}h - \frac{4}{3}}{-\frac{7}{3}h - \frac{4}{3}} - \frac{2}{5} = -\frac{2}{5}$</p> <p>f) $\frac{-\frac{9}{2}u - 3}{-\frac{5}{3}u - 6} - 7 = -\frac{89}{14}$</p>
2	<p>Bitte berechnen Sie die genannten Unbekannten</p> <p>a) $\frac{9s-2as}{4bi+5w} - 6p = 3q$ [s a i w]</p> <p>b) $\frac{2mz-m}{-r-8er} - 3h = 7p$ [z m r e]</p> <p>c) $\frac{4,7r-6,1z}{1,1f+5,5} + 5,4j = -4,7y$ [r z f]</p> <p>d) $\frac{8,5w-4,9}{3,9x-4,3} - 2,5h = -3,7o$ [w x]</p>
3	<p>Bitte lösen Sie die Gleichungssysteme</p> <p>a)</p> $\begin{aligned} -8j - 3t &= 89 \\ 2j + t &= -23 \end{aligned}$ <p>b)</p> $\begin{aligned} \frac{3}{4}q + \frac{4}{3}f &= \frac{71}{120} \\ -\frac{1}{3}q + \frac{9}{8}f &= \frac{143}{240} \end{aligned}$ <p>c)</p> $\begin{aligned} 5(-10f + 8j) - (-f - 4j) + 9 &= 288 \\ -8(5f - 5j) + 3(-f - 8j) + 7 &= 184 \end{aligned}$ <p>d)</p> $\begin{aligned} -5a - 4u + 4b &= -37 \\ 3a + 6u - 4b &= 47 \\ -3a + 7u - 9b &= 57 \end{aligned}$