

Lösungen:

<p>1</p>	<p>Bitte lösen Sie die (quadratischen) Gleichungen</p> <p>a)</p> $\frac{5}{4}z^2 - \frac{35}{12}z + \frac{5}{6} = 0$ $L: \quad z_1 = 2; z_2 = \frac{1}{3}$ <p>b)</p> $\frac{4}{3w+3} - \frac{3}{-w+1} = -\frac{7}{3}$ $L: \quad w_1 = -2; w_2 = \frac{1}{7}$
<p>2</p>	<p>Bitte lösen Sie die Gleichungssysteme</p> <p>a)</p> $\begin{aligned} -7s + h + 8g &= -39 \\ 4s - h + 6g &= 32 \\ -5s - 4h - 7g &= -50 \end{aligned}$ <p>L:</p> $\begin{aligned} s &= 7; \\ h &= 2; \\ g &= 1; \end{aligned}$ <p>b)</p> $\begin{aligned} -4v + 3g &= 32 \\ 4g + 7w &= -26 \\ -2v - g - w &= 12 \end{aligned}$ <p>L:</p> $\begin{aligned} v &= -5; \\ g &= 4; \\ w &= -6; \end{aligned}$ <p>c)</p> $\begin{aligned} 4s - g &= -23 \\ -s - 2z &= -1 \\ -z - 3g &= -12 \end{aligned}$ <p>L:</p> $\begin{aligned} s &= -5; \\ z &= 3; \\ g &= 3; \end{aligned}$
<p>3</p>	<p>Bitte berechnen Sie</p> $\frac{-t-1}{p-2} - \frac{-s-w}{4q-3v}$ $L: \quad \frac{-t-1}{p-2} - \frac{-s-w}{4q-3v} = \frac{-4qt + 3tv - 4q + 3v + ps + pw - 2s - 2w}{4pq - 3pv - 8q + 6v}$