

Lösungen:

		Punkte
1	Bitte lösen Sie die angegebenen Gleichungssysteme: a) $\begin{aligned} -5s + 2b + 6m &= -36 \\ 8s - 2b + 3m &= 15 \\ 3s + 3b - 8m &= 18 \end{aligned}$ L: $\begin{aligned} s &= 2; \\ b &= -4; \\ m &= -3; \end{aligned}$ b) $\begin{aligned} 7(-7i + 2n) - 7(-8i - j) + 4(6n + 4j) - 5 &= -50 \\ -2(5i + 7n) - 3(-10i + 10j) - 10(-3n - 2j) - 7 &= -1 \\ 6(-8i - 6n) + (i - 10j) - 5(-10n + 6j) - 5 &= 223 \end{aligned}$ L: $\begin{aligned} i &= -2; \\ n &= 1; \\ j &= -3; \end{aligned}$ c) $\begin{aligned} 4,5n + 5,2b + 9,7e &= -105,46 \\ -1,4n + 8,5b - 2,4e &= -72,26 \\ 1,5n + 4,8b - 7,4e &= 1,17 \end{aligned}$ L: $\begin{aligned} n &= 1,7; \\ b &= -10; \\ e &= -6,3; \end{aligned}$ d) $\begin{aligned} \frac{1}{5}p + \frac{1}{2}e &= \frac{11}{200} \\ -10p - \frac{3}{2}e &= \frac{119}{8} \end{aligned}$ L: $p = -\frac{8}{5}; e = \frac{3}{4}$	22