

Lineare Gleichungssysteme mit drei Unbekannten

1)	$\begin{aligned}1x + 2y - 4z &= -20 \\ -4x + 4y + 3z &= 16 \\ -1x + 2y + 4z &= 16\end{aligned}$	1) $L = \{(-2 / -1 / 4)\}$
2)	$\begin{aligned}-2x + 2y + 3z &= 13 \\ 1x + 1y + 2z &= 3 \\ -4x - 2y - 1z &= 1\end{aligned}$	2) $L = \{(-2 / 3 / 1)\}$
3)	$\begin{aligned}2x - 4y - 2z &= -28 \\ -4x + 4y - 1z &= 24 \\ 2x + 1y + 3z &= 7\end{aligned}$	3) $L = \{(-4 / 3 / 4)\}$
4)	$\begin{aligned}2x - 4y + 4z &= -2 \\ 4x - 4y + 1z &= -14 \\ 3x - 1y + 1z &= -8\end{aligned}$	4) $L = \{(-3 / 1 / 2)\}$
5)	$\begin{aligned}-4x + 3y + 3z &= -7 \\ -2x - 1y + 2z &= -7 \\ -1x + 2y + 3z &= -5\end{aligned}$	5) $L = \{(1 / 1 / -2)\}$
6)	$\begin{aligned}3x + 3y - 4z &= -8 \\ 4x + 4y + 3z &= 31 \\ -4x + 2y - 1z &= -3\end{aligned}$	6) $L = \{(1 / 3 / 5)\}$
7)	$\begin{aligned}-2x - 4y - 3z &= -14 \\ -2x + 1y - 4z &= 3 \\ 4x + 3y - 4z &= 33\end{aligned}$	7) $L = \{(4 / 3 / -2)\}$
8)	$\begin{aligned}-2x - 3y - 3z &= -7 \\ -1x + 3y - 1z &= -11 \\ 4x + 3y - 4z &= -10\end{aligned}$	8) $L = \{(2 / -2 / 3)\}$
9)	$\begin{aligned}-3x - 1y - 2z &= -23 \\ 4x + 2y + 3z &= 29 \\ 3x - 4y + 4z &= 58\end{aligned}$	9) $L = \{(6 / -5 / 5)\}$
10)	$\begin{aligned}2x - 4y + 4z &= 42 \\ -4x + 2y + 4z &= 0 \\ -2x + 2y + 3z &= -2\end{aligned}$	10) $L = \{(1 / -6 / 4)\}$