

## Lineare Gleichungssysteme mit vier Unbekannten

	$1a + 2b - 2c - 4d = -8$ $1a + 1b - 4c + 2d = 14$ $-3a + 3b - 3c - 1d = 30$ $-3a + 4b + 2c + 3d = 12$		
1)		1)	$L = \{(-4 / 2 / -4 / 4)\}$
2)	$2a + 4b + 1c - 2d = 16$ $1a - 1b + 2c + 2d = 9$ $1a + 2b + 4c - 2d = 20$ $2a - 3b - 1c - 3d = -3$		2) $L = \{(2 / 1 / 4 / -2)\}$
3)	$-4a - 4b + 1c + 1d = -13$ $1a - 3b - 2c - 1d = 8$ $1a - 1b + 1c - 3d = 3$ $1a - 3b + 4c + 2d = 2$		3) $L = \{(3 / -1 / -1 / -4)\}$
4)	$4a - 1b - 4c - 1d = 2$ $4a - 2b - 3c + 4d = 7$ $1a + 2b - 2c - 4d = -12$ $-3a - 3b - 3c + 4d = -3$		4) $L = \{(2 / -4 / 3 / -2)\}$
5)	$3a - 1b - 3c - 3d = -1$ $1a - 1b - 4c - 2d = 2$ $3a - 3b - 1c + 4d = -5$ $3a + 1b - 2c - 4d = 12$		5) $L = \{(2 / 4 / -1 / 2)\}$
6)	$4a + 3b + 5c + 1d = -8$ $2a + 1b + 2c - 4d = -7$ $-4a - 2b + 1c + 3d = 4$ $3a - 4b + 3c + 2d = -27$		6) $L = \{(-3 / 3 / -2 / 5)\}$
7)	$-3a + 2b + 2c + 3d = 10$ $-3a + 3b - 2c - 3d = 4$ $1a + 2b + 3c + 1d = 13$ $5a - 4b - 1c + 1d = -7$		7) $L = \{(2 / 4 / 1 / 2)\}$
8)	$-2a + 2b + 7c + 1d = 64$ $-2a + 6b + 1c + 3d = 16$ $2a + 5b + 4c + 7d = 35$ $6a - 1b + 4c + 8d = 25$		8) $L = \{(-1 / 1 / 8 / 4)\}$