

Lineare Gleichungssysteme mit drei Unbekannten

a) I. $z = 3x - 4y - 2$
II. $z = 2x + 3y - 13$
III. $z = 5x - 9y + 2$

b) I. $x + y = 11$
II. $x + z = 12$
III. $y + z = 13$

c) I. $x + 4y - 5z = 21$
II. $2x + 3y + 4z = -1$
III. $x - 6y - 8z = -3$

d) I. $7x + 6y + 7z = 100$
II. $x - 2y + z = 0$
III. $3x + y - 2z = 0$

e) I. $3x + 2y + 3z = 110$
II. $5x + y - 4z = 0$
III. $2x - 3y + z = 0$

f) I. $x + 2y + 3z = 32$
II. $2x + 3y + z = 42$
III. $3x + y + 2z = 40$

Lösungen:

- a) I. $z = 3x - 4y - 2$
II. $z = 2x + 3y - 13$
III. $z = 5x - 9y + 2$ $L = (3 \mid 2 \mid -1)$
- b) I. $x + y = 11$
II. $x + z = 12$
III. $y + z = 13$ $L = (5 \mid 6 \mid 7)$
- c) I. $x + 4y - 5z = 21$
II. $2x + 3y + 4z = -1$
III. $x - 6y - 8z = -3$ $L = (-1 \mid 3 \mid -2)$
- d) I. $7x + 6y + 7z = 100$
II. $x - 2y + z = 0$
III. $3x + y - 2z = 0$ $L = (3 \mid 5 \mid 7)$
- e) I. $3x + 2y + 3z = 110$
II. $5x + y - 4z = 0$
III. $2x - 3y + z = 0$ $L = (11 \mid 13 \mid 17)$
- f) I. $x + 2y + 3z = 32$
II. $2x + 3y + z = 42$
III. $3x + y + 2z = 40$ $L = (9 \mid 7 \mid 3)$