Mathematik

Lineare Gleichungssysteme

Name:

Klasse: Datum:

Aufgaben

a) $\begin{vmatrix} -4x - 1y = 6 \\ 2x + 1y = -6 \end{vmatrix}$

b) $\begin{vmatrix} -1x - 4y = -28 \\ 5x + 2y = -22 \end{vmatrix}$

c) $\begin{vmatrix} 1x - 5y = 20 \\ 5x + 2y = 19 \end{vmatrix}$

d) $\begin{vmatrix} -5x + 4y = -82 \\ -3x + 2y = -46 \end{vmatrix}$

e) $\begin{vmatrix} -10x + 5y = -15 \\ 5x + 2y = 39 \end{vmatrix}$

f) $\begin{vmatrix} 3x + 10y = -105 \\ 6x + 1y = -39 \end{vmatrix}$

g) $\begin{vmatrix} -3x + 5y = 42 \\ -1x - 3y = -28 \end{vmatrix}$

h) $\begin{vmatrix} 3x + 2y = -32 \\ 4x - 5y = 34 \end{vmatrix}$

i) $\begin{vmatrix} -5x - 5y - 5z = 85 \\ 3x - 5y - 1z = 17 \\ -1x + 1y - 3z = 9 \end{vmatrix}$

j) $\begin{vmatrix} -1x - 8y - 5z = -35 \\ 10x + 9y - 8z = -127 \\ 10x + 6y + 6z = -32 \end{vmatrix}$

k) $\begin{vmatrix} -7x + 8y + 2z = 35 \\ 4x - 8y + 10z = -44 \\ + 6y + 7z = 42 \end{vmatrix}$

l) $\begin{vmatrix} -3x + 3y - 11z = 51 \\ -4x - 3y + 17z = -2 \\ x + y - 99z = 3 \end{vmatrix}$

m) $\begin{vmatrix} -5x + 1y - 3z = 43 \\ 2x + 5y + 3z = -19 \\ - 5y - 5z = 35 \end{vmatrix}$

n) $\begin{vmatrix} -2x + 5y - 4z = -55 \\ 5x - 3y = 32 \\ -1x + 3y = -28 \end{vmatrix}$

o) $\begin{vmatrix} - 9y + 5z = -35 \\ -1x + 5y + 8z = -62 \\ -8x - 1y + 3z = -69 \end{vmatrix}$

p) $\begin{vmatrix} -1x - 1y + 8z = -24 \\ 4x + 3y + 5z = -17 \\ -1x - 8y + 7z = -35 \end{vmatrix}$

Lösungen

a) x = 0
   y = -6

b) x = -8
   y = 9

c) x = 5
   y = -3

d) x = 10
   y = -8

e) x = 5
   y = 7

f) x = -5
   y = -9

g) x = 1
   y = 9

h) x = -4
   y = -10

i) x = -7
   y = -7
   z = -3

j) x = -8
   y = 1
   z = 7

k) x = 3
   y = 7
   z = 0

l) x = -7
   y = 10
   z = 0

m) x = -2
   y = 3
   z = -10

n) x = 1
   y = -9
   z = 2

o) x = 6
   y = 0
   z = -7

p) x = -2
   y = 2
   z = -3

Weitere Aufgaben unter www.scoogle.de/lgs

scoogle.de