



Gleichungssysteme (3x3) I

Löse das Gleichungssystem. Schreibe auf einem Karoblatt.

$$\begin{array}{rcl} 1. & 8x & = -32 \\ & 3x + 3y + 3z & = -63 \\ & 7y & = -56 \end{array} \quad \begin{array}{l} x = \underline{\hspace{2cm}} \\ y = \underline{\hspace{2cm}} \\ z = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{rcl} 2. & 9x & = -9 \\ & + 7y + 5z & = 51 \\ & y + z & = 7 \end{array} \quad \begin{array}{l} x = \underline{\hspace{2cm}} \\ y = \underline{\hspace{2cm}} \\ z = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{rcl} 3. & 3x + 7y & = -20 \\ & - 8z & = 56 \\ & 4x + 7z & = -29 \end{array} \quad \begin{array}{l} x = \underline{\hspace{2cm}} \\ y = \underline{\hspace{2cm}} \\ z = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{rcl} 4. & -7x - 6y & = 34 \\ & 4x + 9y + z & = -3 \\ & 8x + 8z & = -5 \end{array} \quad \begin{array}{l} x = \underline{\hspace{2cm}} \\ y = \underline{\hspace{2cm}} \\ z = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{rcl} 5. & 6x + 7y - 8z & = 55 \\ & -5x + 6y & = 26 \\ & 8x - 3z & = -5 \end{array} \quad \begin{array}{l} x = \underline{\hspace{2cm}} \\ y = \underline{\hspace{2cm}} \\ z = \underline{\hspace{2cm}} \end{array}$$



Gleichungssysteme (3x3) I

Löse das Gleichungssystem. Schreibe auf einem Karoblatt.

Lösungen

$$\begin{aligned} 1. \quad x &= -4 \\ y &= -8 \\ z &= -9 \end{aligned}$$

$$\begin{aligned} 2. \quad x &= -1 \\ y &= 0 \\ z &= -1 \end{aligned}$$

$$\begin{aligned} 3. \quad x &= 5 \\ y &= -5 \\ z &= -7 \end{aligned}$$

$$\begin{aligned} 4. \quad x &= 2 \\ y &= -8 \\ z &= 5 \end{aligned}$$

$$\begin{aligned} 5. \quad x &= -4 \\ y &= 1 \\ z &= -9 \end{aligned}$$



Gleichungssysteme (3x3) II

Löse das Gleichungssystem. Schreibe auf einem Karoblatt.

6.
$$\begin{aligned} 6y &= 30 \\ 5x + 5y + 7z &= 5 \\ -6x + 5y - 9z &= -8 \end{aligned}$$

$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ y &= \underline{\hspace{2cm}} \\ z &= \underline{\hspace{2cm}} \end{aligned}$$

7.
$$\begin{aligned} 3x - 7y + 5z &= 26 \\ y - 6z &= -4 \\ 3y - z &= -1 \end{aligned}$$

$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ y &= \underline{\hspace{2cm}} \\ z &= \underline{\hspace{2cm}} \end{aligned}$$

8.
$$\begin{aligned} -6x + y + 4z &= -3 \\ -3x + 4y - 9z &= -1 \\ x + 6y + 3z &= 15 \end{aligned}$$

$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ y &= \underline{\hspace{2cm}} \\ z &= \underline{\hspace{2cm}} \end{aligned}$$

9.
$$\begin{aligned} 5x + 4y + 4z &= 4 \\ -2x + 3y + 9z &= 5 \\ 6x + 2y + 7z &= 3 \end{aligned}$$

$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ y &= \underline{\hspace{2cm}} \\ z &= \underline{\hspace{2cm}} \end{aligned}$$

10.
$$\begin{aligned} 5x + 8y + 5z &= -1 \\ -8x - 6y - 3z &= -3 \\ -8x + 4y + 6z &= -1 \end{aligned}$$

$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ y &= \underline{\hspace{2cm}} \\ z &= \underline{\hspace{2cm}} \end{aligned}$$



Gleichungssysteme (3x3) II

Löse das Gleichungssystem. Schreibe auf einem Karoblatt.

Lösungen

$$\begin{aligned} 6. \quad x &= -2 \\ y &= 5 \\ z &= 5 \end{aligned}$$

$$\begin{aligned} 7. \quad x &= -7 \\ y &= -1 \\ z &= 8 \end{aligned}$$

$$\begin{aligned} 8. \quad x &= 6 \\ y &= 2 \\ z &= -1 \end{aligned}$$

$$\begin{aligned} 9. \quad x &= -1 \\ y &= 9 \\ z &= 3 \end{aligned}$$

$$\begin{aligned} 10. \quad x &= 9 \\ y &= -6 \\ z &= -2 \end{aligned}$$