

Übungen zu linearen Gleichungssystemen mit 3 Unbekannten!

$$1. \begin{cases} x + y - z = 9 \\ x + 2y - 4z = 15 \\ x + 3y - 9z = 23 \end{cases}$$

$$2. \begin{cases} 2x - y + 4z = 5 \\ 5x + 2y - 10z = 7 \\ 12x - 9y - 8z = 11 \end{cases}$$

$$3. \begin{cases} 3x - 4y + 2z = 10 \\ 5x - 3y + 4z = 3 \\ -2x + 5y - 3z = -7 \end{cases}$$

$$4. \begin{cases} 4x + 2y + 2z = 8 \\ 3x - 4y + 3z = -2 \\ x + 3y + 2z = 4 \end{cases}$$

$$5. \begin{cases} 3x + 6y - 12z = 26 \\ x + 5y + 20z = -12 \\ 5x + 7y - 50z = 59 \end{cases} \quad (\text{Ergebnis enthält Brüche!})$$

$$6. \begin{cases} x + 2y + 3z = 4 \\ 5x + 6y + 7z = 8 \\ 9x + 10y + 11z = 12 \end{cases}$$

$$7. \begin{cases} 2x + 4y + 4z = -4 \\ 2x + 3y + z = 1 \\ 3x + 5y + 3z = -1 \end{cases}$$

$$8. \begin{cases} 4x + 2y + 2z = 8 \\ 3x + 9y + 6z = -2 \\ x + 3y + 2z = 4 \end{cases}$$