

Übungsaufgaben: Lineare Gleichungssysteme lösen 1

$$(1) \quad \left| \begin{array}{l} 0 = -12 - 2m + 4n \\ 2n = 16 \end{array} \right|$$

$$(2) \quad \left| \begin{array}{l} -10n = -m + 7 \\ -7 = 5n - m \end{array} \right|$$

$$(3) \quad \left| \begin{array}{l} -5y = 55 \\ -10 - 5x = 5y \\ 20y + 20x = -3z + 3,5 \end{array} \right|$$

$$(4) \quad \left| \begin{array}{l} 4n + 5 = -m \\ -5 = m + 8n \end{array} \right|$$

$$(5) \quad \left| \begin{array}{l} 3m = 6 \\ -6m - n = -7 \end{array} \right|$$

$$(6) \quad \left| \begin{array}{l} -3x - 10z = 10 \\ 0 = -2 - 12z - 6x - 2y \\ -2y - 6x = 4 + 11z \end{array} \right|$$

$$(7) \quad \left| \begin{array}{l} 0 = 3b + 2a + 6,5 \\ -3b - 16,5 = 0 \end{array} \right|$$

$$(8) \quad \left| \begin{array}{l} -9 = -3a \\ -6a = b - 5 \end{array} \right|$$

$$(9) \quad \left| \begin{array}{l} -2y = -26 \\ 3x + 2y = -4 \end{array} \right|$$

$$(10) \quad \left| \begin{array}{l} -3b - 3a = -4,5 \\ -13,5 = b \end{array} \right|$$

Lösungen

$$(1) \quad m = 10 \quad n = 8$$

$$(2) \quad m = 7 \quad n = 0$$

$$(3) \quad x = 9 \quad y = -11 \quad z = 29/2$$

$$(4) \quad m = -5 \quad n = 0$$

$$(5) \quad m = 2 \quad n = -5$$

$$(6) \quad x = -10 \quad y = 17 \quad z = 2$$

$$(7) \quad a = 5 \quad b = -11/2$$

$$(8) \quad a = 3 \quad b = -13$$

$$(9) \quad x = -10 \quad y = 13$$

$$(10) \quad a = 15 \quad b = -27/2$$