

4 Lineare Gleichungssysteme: Einsetzungsverfahren

Bestimme die Lösungsmenge der folgenden linearen Gleichungssysteme unter Einsatz des Einsetzungsverfahrens.

Knicke zuerst den Zettel an der Linie um, ohne Dir die Lösungen anzuschauen. Löse alle Aufgaben und vergleiche erst dann Deine Ergebnisse.

$$\left| \begin{array}{l} -9x + y = -40 \\ -3y + 10 = -x \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{5|5\}$$

$$\left| \begin{array}{l} -2x - 33 = -7y \\ x = y - 4 \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{1|5\}$$

$$\left| \begin{array}{l} -7x + 2y = 23 \\ -x = -y - 1 \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{-5|-6\}$$

$$\left| \begin{array}{l} 8x = 2y + 6 \\ 12 = x + 2y \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{2|5\}$$

$$\left| \begin{array}{l} -5x + 17 = y \\ -9x + 30 = 2y \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{4|-3\}$$

$$\left| \begin{array}{l} -6y - 45 = 9x \\ y + 39 = -5x \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{-9|6\}$$

$$\left| \begin{array}{l} 18 = -6x - y \\ 24 = -8x - 3y \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{-3|0\}$$

$$\left| \begin{array}{l} -3y - 5 = -4x \\ 6y - 35 = -x \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{5|5\}$$

$$\left| \begin{array}{l} -1 = -5x - 4y \\ -2 = -x - y \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{-7|9\}$$

$$\left| \begin{array}{l} x = -y - 17 \\ 9x = 7y - 25 \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{-9|-8\}$$

$$\left| \begin{array}{l} y = -3x + 6 \\ -9x + 18 = -2y \end{array} \right| \Rightarrow \left| \begin{array}{l} = \\ = \end{array} \right| \quad L = \{2|0\}$$