

Lineare Gleichungssysteme lösen

Aufgabe 1: Löse das lin. Gleichungssystem

- 1)
$$\begin{array}{l} 3x - 1y = 5 \\ -1x + 3y = 9 \end{array}$$
- 2)
$$\begin{array}{l} 1x - 5y = 23 \\ 3x - 1y = 13 \end{array}$$
- 3)
$$\begin{array}{l} 3x + 3y = 0 \\ -1x - 2y = 5 \end{array}$$
- 4)
$$\begin{array}{l} -1x - 5y = -12 \\ 5x + 4y = -3 \end{array}$$
- 5)
$$\begin{array}{l} -1x - 3y = -9 \\ -3x - 1y = -11 \end{array}$$
- 6)
$$\begin{array}{l} -3x - 2y = -4 \\ -3x - 5y = -19 \end{array}$$
- 7)
$$\begin{array}{l} 5x + 3y = 35 \\ -1x + 2y = 6 \end{array}$$
- 8)
$$\begin{array}{l} -2x - 5y = 2 \\ -4x - 1y = -14 \end{array}$$
- 9)
$$\begin{array}{l} 1x - 3y = 7 \\ 3x + 2y = -12 \end{array}$$
- 10)
$$\begin{array}{l} 5x + 3y = 40 \\ 1x - 4y = -15 \end{array}$$
- 11)
$$\begin{array}{l} -4x + 2y = -6 \\ 2x + 3y = 15 \end{array}$$
- 12)
$$\begin{array}{l} 2x - 2y = 0 \\ 1x + 2y = 12 \end{array}$$
- 13)
$$\begin{array}{l} 1x - 1y = 3 \\ 2x - 4y = 8 \end{array}$$
- 14)
$$\begin{array}{l} 3x - 4y = -14 \\ -5x + 5y = 20 \end{array}$$
- 15)
$$\begin{array}{l} -4x + 4y = 0 \\ -4x + 5y = -5 \end{array}$$
- 16)
$$\begin{array}{l} -5x + 5y = 15 \\ -4x - 4y = 28 \end{array}$$
- 17)
$$\begin{array}{l} -5x - 3y = -13 \\ 2x - 5y = -1 \end{array}$$
- 18)
$$\begin{array}{l} -2x + 5y = -25 \\ -1x - 5y = 10 \end{array}$$
- 19)
$$\begin{array}{l} 5x + 3y = 6 \\ 5x + 5y = 0 \end{array}$$
- 20)
$$\begin{array}{l} 5x + 3y = 19 \\ 1x + 2y = 1 \end{array}$$
- 21)
$$\begin{array}{l} -1x - 3y = -8 \\ 4x + 2y = 12 \end{array}$$
- 22)
$$\begin{array}{l} -1x - 3y = 19 \\ -4x - 4y = 36 \end{array}$$

Lösung:

- 1) $L = \{ (3|4) \}$
- 2) $L = \{ (3|-4) \}$
- 3) $L = \{ (5|-5) \}$
- 4) $L = \{ (-3|3) \}$
- 5) $L = \{ (3|2) \}$
- 6) $L = \{ (-2|5) \}$
- 7) $L = \{ (4|5) \}$
- 8) $L = \{ (4|-2) \}$
- 9) $L = \{ (-2|-3) \}$
- 10) $L = \{ (5|5) \}$
- 11) $L = \{ (3|3) \}$
- 12) $L = \{ (4|4) \}$
- 13) $L = \{ (2|-1) \}$
- 14) $L = \{ (-2|2) \}$
- 15) $L = \{ (-5|-5) \}$
- 16) $L = \{ (-5|-2) \}$
- 17) $L = \{ (2|1) \}$
- 18) $L = \{ (5|-3) \}$
- 19) $L = \{ (3|-3) \}$
- 20) $L = \{ (5|-2) \}$
- 21) $L = \{ (2|2) \}$
- 22) $L = \{ (-4|-5) \}$