

Gleichungssysteme mit 2 Variablen

G.Roofls

$$3x + y = 5$$

$$-3x + y = -1$$

$$\begin{array}{r} 3x + y = 5 \\ -3x + y = -1 \end{array} \left. \vphantom{\begin{array}{r} 3x + y = 5 \\ -3x + y = -1 \end{array}} \right\} +$$

$$\begin{array}{r} 3x + y = 5 \\ -3x + y = -1 \end{array} \left. \vphantom{\begin{array}{r} 3x + y = 5 \\ -3x + y = -1 \end{array}} \right\} +$$

$$2y = 4$$

$$\begin{array}{r} 3x + y = 5 \\ -3x + y = -1 \end{array} \left. \vphantom{\begin{array}{r} 3x + y = 5 \\ -3x + y = -1 \end{array}} \right\} +$$

$$2y = 4$$
$$y = 2$$

$$\begin{array}{r} 3x + y = 5 \\ -3x + y = -1 \end{array} \left. \vphantom{\begin{array}{r} 3x + y = 5 \\ -3x + y = -1 \end{array}} \right\} +$$

$$\begin{array}{r} 2y = 4 \\ y = 2 \\ x = 1 \end{array}$$

$$\begin{array}{r} x - 2y = 3 \\ 4x + 3y = 23 \end{array}$$

$$\begin{array}{rcl} x - 2y = 3 & | \cdot (-4) \\ 4x + 3y = 23 \\ \hline \end{array}$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x + 8y =$$

$$\begin{array}{r} x - 2y = 3 \\ 4x + 3y = 23 \\ \hline -4x + 8y = -12 \end{array} \quad | \cdot (-4)$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x + 8y = -12$$

$$4x$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x + 8y = -12$$

$$4x + 3y =$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x + 8y = -12$$

$$4x + 3y = 23$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x + 8y = -12$$

$$4x + 3y = 23$$

$$11y =$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x + 8y = -12$$

$$4x + 3y = 23$$

$$11y = 11$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x + 8y = -12$$

$$4x + 3y = 23$$

$$11y = 11$$

$$y = 1$$

$$x - 2y = 3 \quad | \cdot (-4)$$

$$4x + 3y = 23$$

$$-4x + 8y = -12$$

$$4x + 3y = 23$$

$$11y = 11$$

$$y = 1$$

$$x = 5$$

$$5x + 2y = 9$$

$$2x - 3y = -4$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y =$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x - 6y =$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x - 6y = -8$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x - 6y = -8$$

$$19x \quad =$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x - 6y = -8$$

$$19x = 19$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x - 6y = -8$$

$$19x \quad \quad = 19$$

$$x =$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x - 6y = -8$$

$$19x \quad \quad = 19$$

$$x = 1$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x - 6y = -8$$

$$19x \quad \quad = 19$$

$$x = 1$$

$$y =$$

$$5x + 2y = 9 \quad | \cdot 3$$

$$2x - 3y = -4 \quad | \cdot 2$$

$$15x + 6y = 27$$

$$4x - 6y = -8$$

$$19x \quad \quad = 19$$

$$x = 1$$

$$y = 2$$

$$3x + 5y = 13$$

$$4x + 3y = 10$$

$$3x + 5y = 13$$

$$4x + 3y = 10$$

y eliminieren

$$3x + 5y = 13 \quad | \cdot 3$$

$$4x + 3y = 10$$

y eliminieren

$$3x + 5y = 13 \quad | \cdot 3 \quad (\text{z. B.}) \quad y \text{ eliminieren}$$

$$4x + 3y = 10$$

$$3x + 5y = 13 \quad | \cdot 3 \quad (\text{z. B.}) \quad y \text{ eliminieren}$$

$$4x + 3y = 10 \quad | \cdot (-5)$$

$$3x + 5y = 13 \quad | \cdot 3 \quad (\text{z. B.}) \quad y \text{ eliminieren}$$

$$4x + 3y = 10 \quad | \cdot (-5)$$

...

$$x = 1$$

$$y = 2$$