

$$\begin{array}{r}
 \text{1 c) (1) } 4x = y + 7 \\
 \text{(2) } 2x = -y + 11 \\
 \hline
 \text{(1) + (2) } 6x = 18 \quad | :6 \\
 x = 3
 \end{array}$$

$x = 3$ in (1) einsetzen:

$$\begin{array}{r}
 4 \cdot 3 = y + 7 \\
 12 = y + 7 \quad | -7 \\
 5 = y
 \end{array}$$

Lösung: (3; 5)

$$\begin{array}{r}
 \text{d) (1) } 13 + x = 6y \\
 \text{(2) } 11 - x = 2y \\
 \hline
 \text{(1) + (2) } 24 = 8y \quad | :8 \\
 3 = y
 \end{array}$$

$y = 3$ in (1) einsetzen:

$$\begin{array}{r}
 13 + x = 6 \cdot 3 \\
 13 + x = 18 \quad | -13 \\
 x = 5
 \end{array}$$

Lösung: (5; 3)

$$\begin{array}{r}
 \text{3 b) (1) } 2x + 3y = 19 \\
 \text{(2) } x - y = 2 \quad | \cdot 3 \\
 \hline
 \text{(1) } 2x + 3y = 19 \\
 \text{(2')} 3x - 3y = 6 \\
 \hline
 \text{(1) + (2')} 5x = 25 \quad | :5 \\
 x = 5
 \end{array}$$

$x = 5$ in (2) einsetzen:

$$\begin{array}{r}
 5 - y = 2 \quad | -5 \\
 -y = -3 \quad | :(-1) \\
 y = 3
 \end{array}$$

Lösung: (5; 3)

$$\begin{array}{r}
 \text{d) (1) } 5x + 7y = 55 \quad | \cdot 3 \\
 \text{(2) } 3x - 2y = 2 \quad | \cdot (-5) \\
 \hline
 \text{(1')} 15x + 21y = 165 \\
 \text{(2')} -15x + 10y = -10 \\
 \hline
 \text{(1') + (2')} 31y = 155 \quad | :31 \\
 y = 5
 \end{array}$$

$y = 5$ in (2) einsetzen:

$$\begin{array}{r}
 3x - 2 \cdot 5 = 2 \\
 3x - 10 = 2 \quad | +10 \\
 3x = 12 \quad | :3 \\
 x = 4
 \end{array}$$

Lösung: (4; 5)

2 In den Lösungen sind die Gleichungen bereits geordnet dargestellt.

$$\begin{array}{r}
 \text{b) (1) } 6x - 6y = 6 \\
 \text{(2')} 6x + 6y = 18 \\
 \hline
 \text{(1) + (2')} 12x = 24 \quad | :12 \\
 x = 2
 \end{array}$$

$x = 2$ in (1) einsetzen:

$$\begin{array}{r}
 6 \cdot 2 - 6y = 6 \\
 12 - 6y = 6 \quad | +6y - 6 \\
 6 = 6y \quad | :6 \\
 1 = y
 \end{array}$$

Lösung: (2; 1)

$$\begin{array}{r}
 \text{d) (1')} 11x - 2y = -2 \\
 \text{(2) } -6x + 2y = 12 \\
 \hline
 \text{(1') + (2) } 5x = 10 \quad | :5 \\
 x = 2
 \end{array}$$

$x = 2$ in (2) einsetzen:

$$\begin{array}{r}
 -6 \cdot 2 + 2y = 12 \\
 -12 + 2y = 12 \quad | +12 \\
 2y = 24 \quad | :2 \\
 y = 12
 \end{array}$$

Lösung: (2; 12)