

1 Schnittpunkt zweier linearer Funktionen

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

Bestimme den Schnittpunkt der beiden linearen Funktionen. Löse zuerst die Gleichungen nach y auf.

$$\text{a) } \left| \begin{array}{l} 6x + 30 = 9y \\ 9x + 22 = 2y \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(-2|2)$$

$$\text{b) } \left| \begin{array}{l} -20 = 4x + 5y \\ x - 4y = 16 \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(0|-4)$$

$$\text{c) } \left| \begin{array}{l} -2y - 34 = 8x \\ -y = 5x + 21 \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(-4|-1)$$

$$\text{d) } \left| \begin{array}{l} -4x = 5y + 33 \\ -6x - 63 = 9y \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(3|-9)$$

$$\text{e) } \left| \begin{array}{l} -6y - 23 = -5x \\ 4y + 12 = 4x \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(-5|-8)$$

$$\text{f) } \left| \begin{array}{l} 2 = -7x + y \\ 6x = 3y - 21 \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(1|9)$$

$$\text{g) } \left| \begin{array}{l} x - 45 = 7y \\ 7x - 33 = 2y \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(3|-6)$$

$$\text{h) } \left| \begin{array}{l} -4x = 9y + 35 \\ 5y + 14 = -3x \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(7|-7)$$

$$\text{i) } \left| \begin{array}{l} -9x = 4y + 36 \\ -x - 53 = -5y \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(-8|9)$$

$$\text{j) } \left| \begin{array}{l} 7x + 15 = 4y \\ 2y = x + 15 \end{array} \right| \implies \left| \begin{array}{l} y = \\ y = \end{array} \right| \quad P(3|9)$$