

Lösung, Zusatzaufgaben

1. $y = -\frac{3}{5} \cdot x \pm b$

$$\begin{aligned} \curvearrowright 0 &= -\frac{3}{5} \cdot 8 \pm b \\ 0 &= -\frac{24}{5} + \frac{24}{5} \end{aligned}$$

$$\Rightarrow \boxed{y = -\frac{3}{5} \cdot x + \frac{24}{5}}$$

$$\curvearrowright y = -\frac{3}{5} \cdot 0 + \frac{24}{5} = \underline{\underline{\frac{24}{5}}}$$

$$\Rightarrow \underline{\underline{Q(0 | \frac{24}{5})}}$$

2. g: $y = +\frac{4}{5} \cdot x \pm b$

$$\begin{aligned} \curvearrowright 5 &= \frac{4}{5} \cdot 4 \pm b \\ \frac{25}{5} &= \frac{16}{5} + \frac{9}{5} \end{aligned}$$

$$\Rightarrow g: \boxed{y = \frac{4}{5} \cdot x + \frac{9}{5}}$$

h: $y = -\frac{3}{5} \cdot x \pm b$

$$\begin{aligned} \curvearrowright 5 &= -\frac{3}{5} \cdot 4 \pm b \\ \frac{25}{5} &= -\frac{12}{5} + \frac{37}{5} \end{aligned}$$

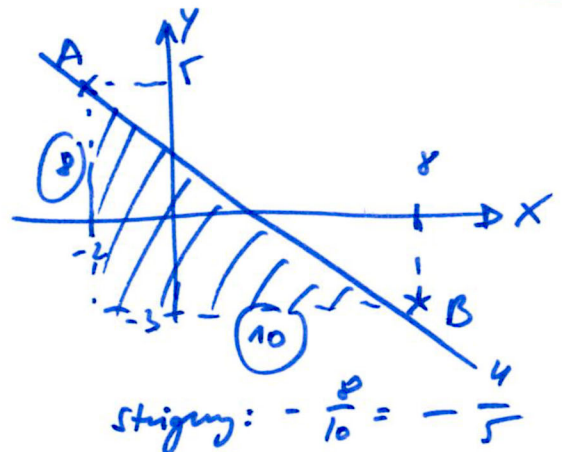
$$\Rightarrow h: \boxed{y = -\frac{3}{5} \cdot x + \frac{37}{5}}$$

$$\Rightarrow \frac{37}{5} - \frac{9}{5} = \underline{\underline{\frac{28}{5}}}$$

3. $y = -\frac{4}{5} \cdot x + b$

$$\begin{aligned} \curvearrowright 5 &= -\frac{4}{5} \cdot (-2) + b \\ \frac{25}{5} &= \frac{8}{5} + \frac{17}{5} \end{aligned}$$

$$\Rightarrow \boxed{y = -\frac{4}{5} \cdot x + \frac{17}{5}}$$



$$\curvearrowright y = -\frac{4}{5} \cdot 0 + \frac{17}{5} = \underline{\underline{\frac{17}{5}}}$$

$$\curvearrowright 0 = -\frac{4}{5} \cdot x + \frac{17}{5} \Rightarrow x = \underline{\underline{\frac{17}{4}}}$$

$$\Rightarrow \underline{\underline{S_x \left(\frac{17}{4} | 0 \right)}}$$

$$, \underline{\underline{S_y \left(0 | \frac{17}{5} \right)}}$$