

Ye-h, Lindana

$$\begin{aligned}
 b) \quad y &= m \cdot x + b \\
 200 &= m \cdot 100 + b \\
 200 &= 4,5 \cdot 100 + b \quad | -450 \\
 -250 &= b
 \end{aligned}$$

$$4,5x - 250 = f(x)$$

$$\begin{aligned}
 1000 &= m \cdot 200 + b \\
 1000 &= (-2) \cdot 200 + b \quad | +400 \\
 1000 &= -400 + b \\
 1400 &= b
 \end{aligned}$$

$$-2x + 1400 = g(x)$$

$$\begin{aligned}
 g(x) &= f(x) \\
 4,5x - 250 &= -2x + 1400 \quad | +250 \\
 4,5x &= -2x + 1650 \quad | +2x \\
 6,5x &= 1650 \quad | :6,5 \\
 x &= \frac{1650}{6,5}
 \end{aligned}$$

$$SP\left(\frac{1650}{6,5} \mid 892,31\right)$$

$$mx + b$$

$$B(x) = 4,5x - 250$$

$$S(x) = -2x + 1400$$

$$\begin{aligned}
 4,5x - 250 &= -2x + 1400 \quad | +2x \\
 6,5x - 250 &= 1400 \quad | +250 \\
 6,5x &= 1650 \quad | :6,5
 \end{aligned}$$

$$x \approx \underline{253,85}$$

$$\begin{aligned}
 B(253,85) &= 4,5 \cdot 253,85 - 250 \\
 &\approx \underline{892,4}
 \end{aligned}$$

$$\text{Schnittpunkt} = (253,85 \mid 892,4)$$