B(100/200) | S(200/1000) | $f(x) = mx + b$

$\vec{v}\begin{pmatrix}100\\450\end{pmatrix}$ | $\vec{w}\begin{pmatrix}50\\-100\end{pmatrix}$

$$\frac{\Delta y}{\Delta x} = \frac{200 - 650}{100 - 200} = \frac{-450}{-100} = 4{,}5 = m$$

$$f(100) = 4{,}5 \cdot 100 + b = 200$$
$$= 450 + b = 200 \quad | -450$$
$$\Rightarrow b = -150$$
$$f(x) = 4{,}5x - 250 \qquad (1)$$

$$\frac{\Delta y}{\Delta x} = \frac{1000 - 800}{200 - 250} = \frac{100}{-50} = -2$$

$$g(200) = -2 \cdot 200 + b = 1000$$
$$= -400 + b = 1000 \quad | +400$$
$$\Rightarrow b = 1400$$
$$g(x) = -2x + 1400 \Rightarrow f(x) = g(x)$$