

S.93

(357)

Piirrä funktioiden kuvaajat

a) $f(x) = x + 1$ (x, y)

$$f(0) = 0 + 1 = 1 \quad (0, 1)$$

$$f(1) = 1 + 1 = 2 \quad (1, 2)$$

$$f(2) = 2 + 1 = 3 \quad (2, 3)$$

b) $g(x) = x - 2$

$$g(0) = 0 - 2 = -2 \quad (0, -2)$$

$$g(1) = 1 - 2 = -1 \quad (1, -1)$$

$$g(2) = 2 - 2 = 0 \quad (2, 0)$$

c) $h(x) = 2x - 1$

$$h(0) = 2 \cdot 0 - 1 = 0 - 1 = -1 \quad (0, -1)$$

$$h(1) = 2 \cdot 1 - 1 = 2 - 1 = 1 \quad (1, 1)$$

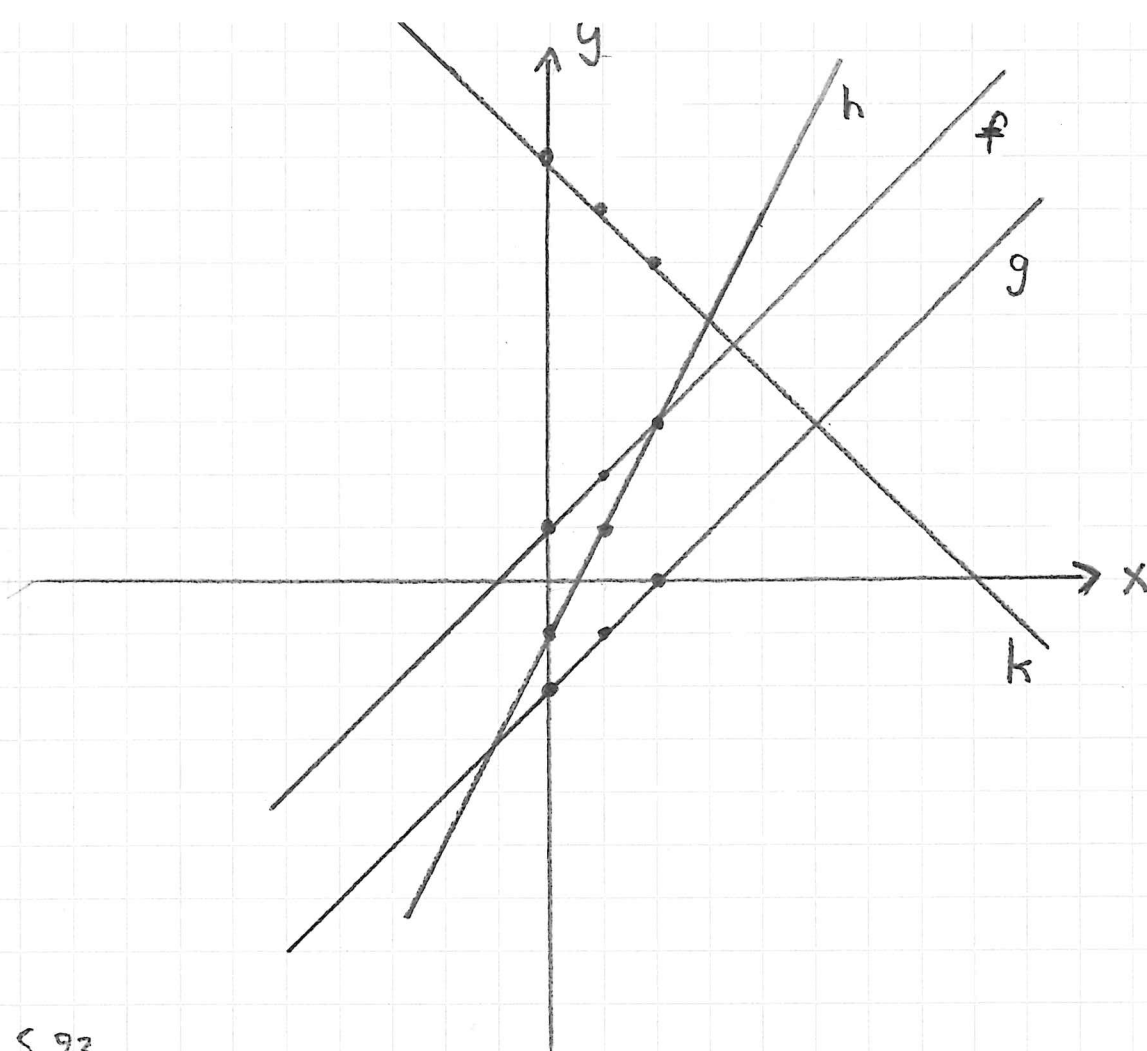
$$h(2) = 2 \cdot 2 - 1 = 4 - 1 = 3 \quad (2, 3)$$

d) $k(x) = 8 - x$
 $= -x + 8$

$$k(0) = -0 + 8 = 8 \quad (0, 8)$$

$$k(1) = -1 + 8 = 7 \quad (1, 7)$$

$$k(2) = -2 + 8 = 6 \quad (2, 6)$$



S.93

358

a) $f(x) = 2x - 5$ (x, y)

$$f(0) = 2 \cdot 0 - 5 = 0 - 5 = -5 \quad (0, -5)$$

$$f(1) = 2 \cdot 1 - 5 = 2 - 5 = -3 \quad (1, -3)$$

$$f(2) = 2 \cdot 2 - 5 = 4 - 5 = -1 \quad (2, -1)$$

b) $g(x) = -2x - 2$

$$g(0) = -2 \cdot 0 - 2 = 0 - 2 = -2 \quad (0, -2)$$

$$g(1) = -2 \cdot 1 - 2 = -2 - 2 = -4 \quad (1, -4)$$

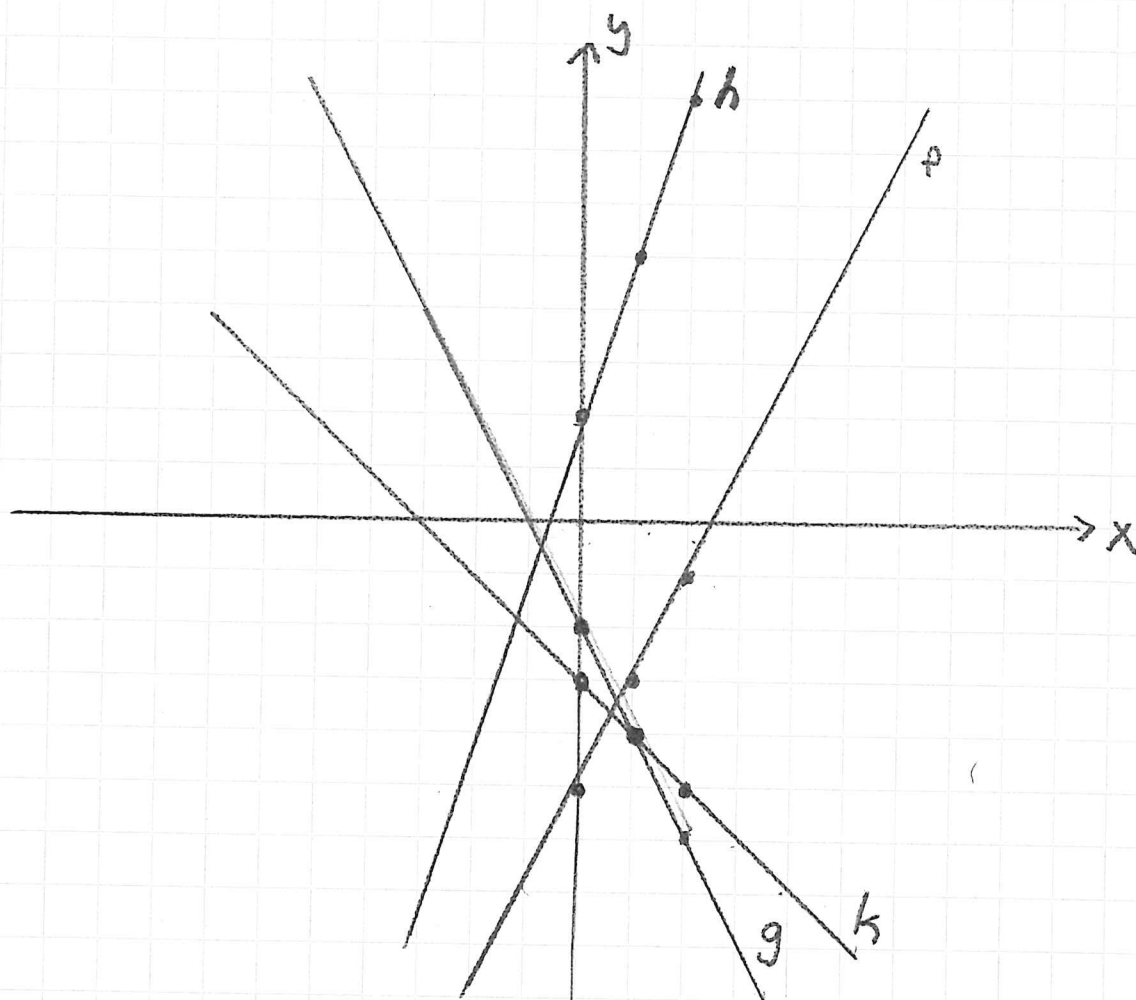
$$g(2) = -2 \cdot 2 - 2 = -4 - 2 = -6 \quad (2, -6)$$

c) $h(x) = 3x + 2$

$$\begin{aligned} h(0) &= 3 \cdot 0 + 2 = 0 + 2 = 2 & (0, 2) \\ h(1) &= 3 \cdot 1 + 2 = 3 + 2 = 5 & (1, 5) \\ h(2) &= 3 \cdot 2 + 2 = 6 + 2 = 8 & (2, 8) \end{aligned}$$

d) $k(x) = -x - 3$

$$\begin{aligned} k(0) &= -0 - 3 = -3 & (0, -3) \\ k(1) &= -1 - 3 = -4 & (1, -4) \\ k(2) &= -2 - 3 = -5 & (2, -5) \end{aligned}$$



366 KOTITEHTÄVÄ!