325

s. 83

$g(x) = 4x - 2$

Mikä on muuttuja (x)?

a) $g(x) = 2$

$4x - 2 = 2 \quad \| +2$

$\frac{4x}{4} = \frac{4}{4} \quad \| : 4$

$x = 1$

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

b) $g(x) = -2$

$4x - 2 = -2 \quad \| +2$

$\frac{4x}{4} = \frac{0}{4} \quad \| : 4$

$x = 0$

c) $g(x) = 0$

$4x - 2 = 0 \quad \| +2$

$\frac{4x}{4} = \frac{2}{4} \quad \| : 4$

$x = \frac{1}{2} \; (= 0{,}5)$

d) $g(x) = 10$

$4x - 2 = 10$ $\quad \| +2$

$\frac{4x}{4} = \frac{12}{4}$ $\quad \| :4$

$x = 3$

326 $h(x) = -5x - 2$

a) $h(x) = 3$? $\quad -5x - 2 = 3$ $\quad \| +2$

$\frac{-5x}{-5} = \frac{5}{-5}$ $\quad \| :(-5)$

$x = -1$

b) $h(x) = -2$? $\quad -5x - 2 = -2$ $\quad \| +2$

$\frac{-5x}{-5} = \frac{0}{-5}$ $\quad \| :(-5)$

$x = 0$

$h(0) = -5 \cdot 0 - 2$

$= 0 - 2$

$= -2$

c) $h(x) = 0$? $\quad -5x - 2 = 0$ $\quad \| +2$

$\frac{-5x}{-5} = \frac{2}{-5}$ $\quad \| :(-5)$

$x = -\frac{2}{5}$ $(= -0{,}4)$

d) $h(x) = -9{,}5$?

$$-5x - 2 = -9{,}5 \quad \| +2$$
$$-5x = -7{,}5 \quad \| :(-5)$$
$$x = 1{,}5$$

$$7{,}5 : 5 = 1{,}5$$
$$-5$$
$$25$$
$$-25$$
$$0$$

328 $f(y) = y^2 - 3$

a) $f(y) = 6$?

$$y^2 - 3 = 6 \quad \| +3$$
$$y^2 = 9 \quad \| \sqrt{\ }$$
$$y = \pm\sqrt{9}$$
$$y = \pm 3 \quad (3 \text{ tai } -3)$$

b) $f(y) = 22$?

$$y^2 - 3 = 22 \quad \| +3$$
$$y^2 = 25$$
$$y = \pm\sqrt{25}$$
$$y = \pm 5$$

c) $f(y) = -3$?

$y^2 - 3 = -3$ ||+3

$y^2 = 0$

$y = \pm\sqrt{0}$

$y = 0$

d) $f(y) = 0$?

$y^2 - 3 = 0$ ||+3

$y^2 = 3$

$y = \pm\sqrt{3}$

$2^2 = 4$

$\sqrt{4} = 2$

322

333

334

S. 82-83