

s. 83

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$$f(x) = -3x + 1$$

nimi $\downarrow$ muuttuja $\downarrow$ lauseke $\downarrow$

Mikä on funktion arvo, kun

a) $x = 2$

$$f(2) = -3 \cdot 2 + 1$$

$$= -6 + 1 = -5$$

b) $x = 0$

$$f(0) = -3 \cdot 0 + 1$$

$$= 0 + 1 = 1$$

c) $x = -1$

$$f(-1) = -3 \cdot (-1) + 1$$

$$= 3 + 1 = 4$$

d) $x = 1,5$

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

$$= -4,5 + 1 = -3,5$$

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$$h(x) = 2x^2 - 4$$

$$1^2 = 1 \cdot 1 = 1$$

a) $x = 1$

$$h(1) = 2 \cdot 1^2 - 4$$

$$= 2 \cdot 1 - 4$$

$$= 2 - 4 = -2$$

b) $x = 0$

$$h(0) = 2 \cdot 0^2 - 4$$

$$= 2 \cdot 0 - 4$$

$$= 0 - 4 = -4$$

$$c) x = -3$$

$$h(-3) = 2 \cdot (-3)^2 - 4$$

$$= 2 \cdot 9 - 4$$

$$= 18 - 4 = \underline{14}$$

$$\boxed{(-3)^2 = -3 \cdot (-3) = 9}$$

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

$$h(0,5) = 2 \cdot 0,5^2 - 4$$

$$= 2 \cdot 0,25 - 4$$

$$= 0,5 - 4 = -3,5$$

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$$f(x) = 3x + 2$$

$$a) f(x) = 2?$$

$$3x + \overset{0}{2} = \overset{0}{2} \quad \begin{array}{l} \parallel -2 \\ \parallel :3 \end{array}$$

$$3x = 0$$

$$x = 0$$

$$b) f(x) = -4?$$

$$3x + \overset{0}{2} = \overset{-6}{-4} \quad \begin{array}{l} \parallel -2 \\ \parallel :3 \end{array}$$

$$3x = -6$$

$$x = -2$$

$$c) f(x) = 0?$$

$$3x + \overset{0}{2} = \overset{-2}{0} \quad \begin{array}{l} \parallel -2 \\ \parallel :3 \end{array}$$

$$3x = -2$$

$$x = -\frac{2}{3} (= -0,666...)$$

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