



## Naloga 1

Nariši graf funkcije, izračunaj še ničlo, začetno vrednost, asimptoto ter vrednost v danih točkah  $x_1$  in  $x_2$ :

a)  $f(x) = 2^x - 4$ ,  $x_1 = -1, x_2 = -3$

b)  $f(x) = 3^x - 3$ ,  $x_1 = -1, x_2 = 2$

c)  $f(x) = \left(\frac{1}{2}\right)^x - 1$ ,  $x_1 = -1, x_2 = 3$

d)  $f(x) = \left(\frac{1}{3}\right)^{x+1} + 3$   $x_1 = -1, x_2 = -2$

e)  $f(x) = 2^{x+3} - 4$   $x_1 = -2, x_2 = -3$

f)  $f(x) = \left(\frac{2}{3}\right)^{x-4} + \frac{9}{4}$   $x_1 = 3, x_2 = 4$

## Naloga 2

Reši enačbo:

a)  $3^x = \frac{1}{9}$

b)  $2^{1-x} = \frac{1}{4}$

c)  $2^{3-2x} = \sqrt{2}$

d)  $\left(\frac{1}{4}\right)^{x+2} = 16$

e)  $2^x \cdot 2^{x+1} \cdot 4^{x-3} = 16$

f)  $2^x \cdot 16^{-x+1} : 4^{x-3} = \frac{1}{8}$

g)  $(\sqrt{3})^{x+1} = \sqrt[5]{3}$

## Naloga 3

Določi  $x$ :

a)  $\log_3(x+2) = 2$

b)  $\log_2(2x+1) = 1$

c)  $\log_5\left(2 + \frac{x}{5}\right) = -1$

d)  $\log(10x + 99^{-1}) = -2$

f)  $\log_x 4 = 16$

g)  $\log_x 2 = \frac{1}{9}$