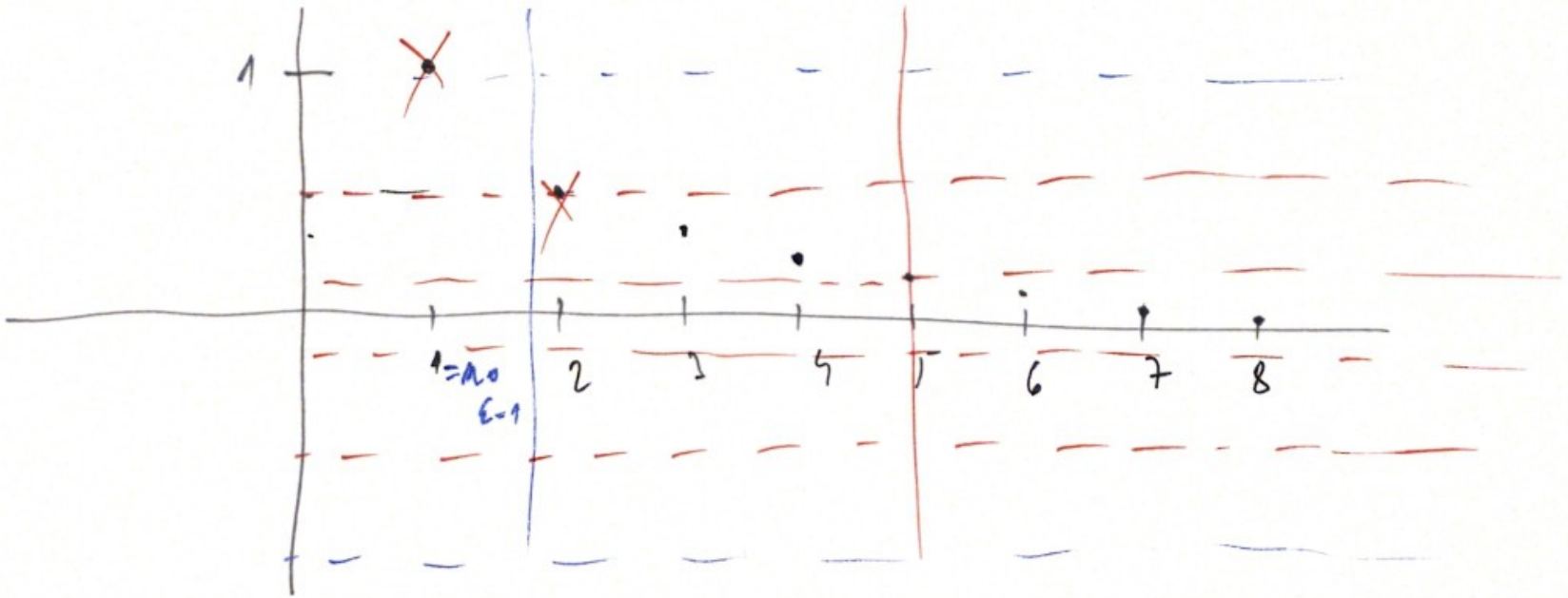
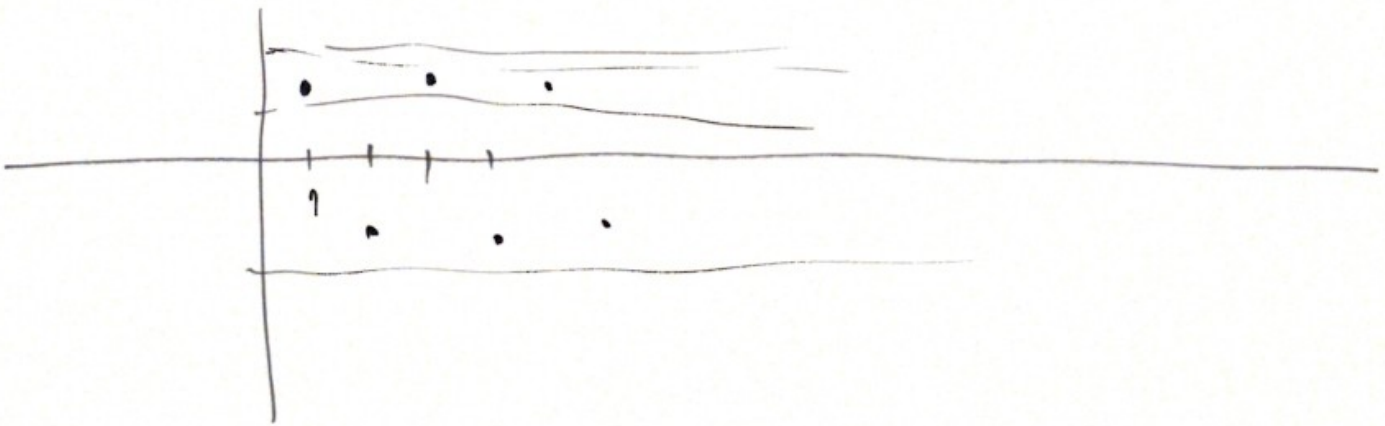
$\varepsilon = 1$

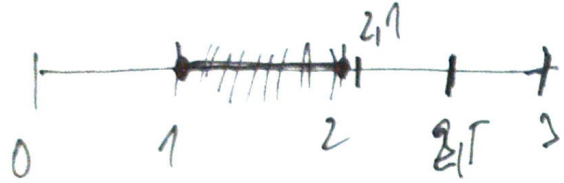
$\varepsilon = \frac{1}{2}$ $\varepsilon = \frac{1}{7}$





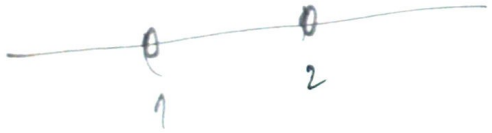
HORNÉ A DOLNÉ OHRANIČENIE

$M = \langle 1, 2 \rangle$



$(0, \infty)$

$M = (1, 2)$



NAJVÄČŠÍ A NAJMENŠÍ PRVOK

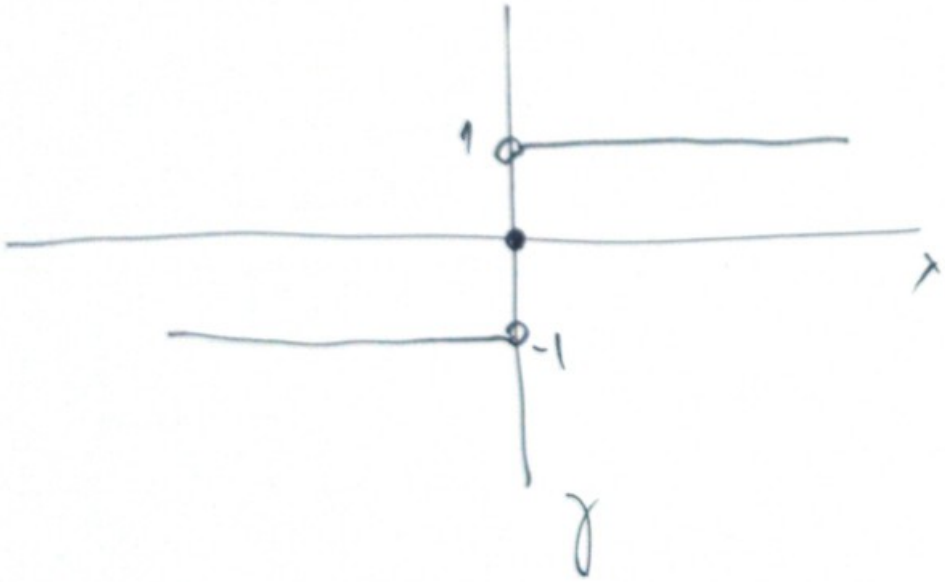
$M = \langle 1, 2 \rangle$

HOR. OHR. $\langle 2, \infty)$

DOLN. OHR $(-\infty, 1\rangle$

SUPREMUM & INFIMUM

$$\operatorname{sgn}(x) = \begin{cases} 1 & x > 0 \\ 0 & x = 0 \\ -1 & x < 0 \end{cases}$$



$y = x^{-1} = \frac{1}{x}$

$y = x^{-2}$

$y = \frac{1}{x^2}$

$a = -1$

$y = x^{-3} = \frac{1}{x^3}$

$y = x^{-5} = \frac{1}{x^5}$

$-\frac{1}{x^2}$

$x^{\frac{1}{2}} = \sqrt{x}$

$x^{\frac{1}{3}} = \sqrt[3]{x}$

$a = \frac{1}{4}$

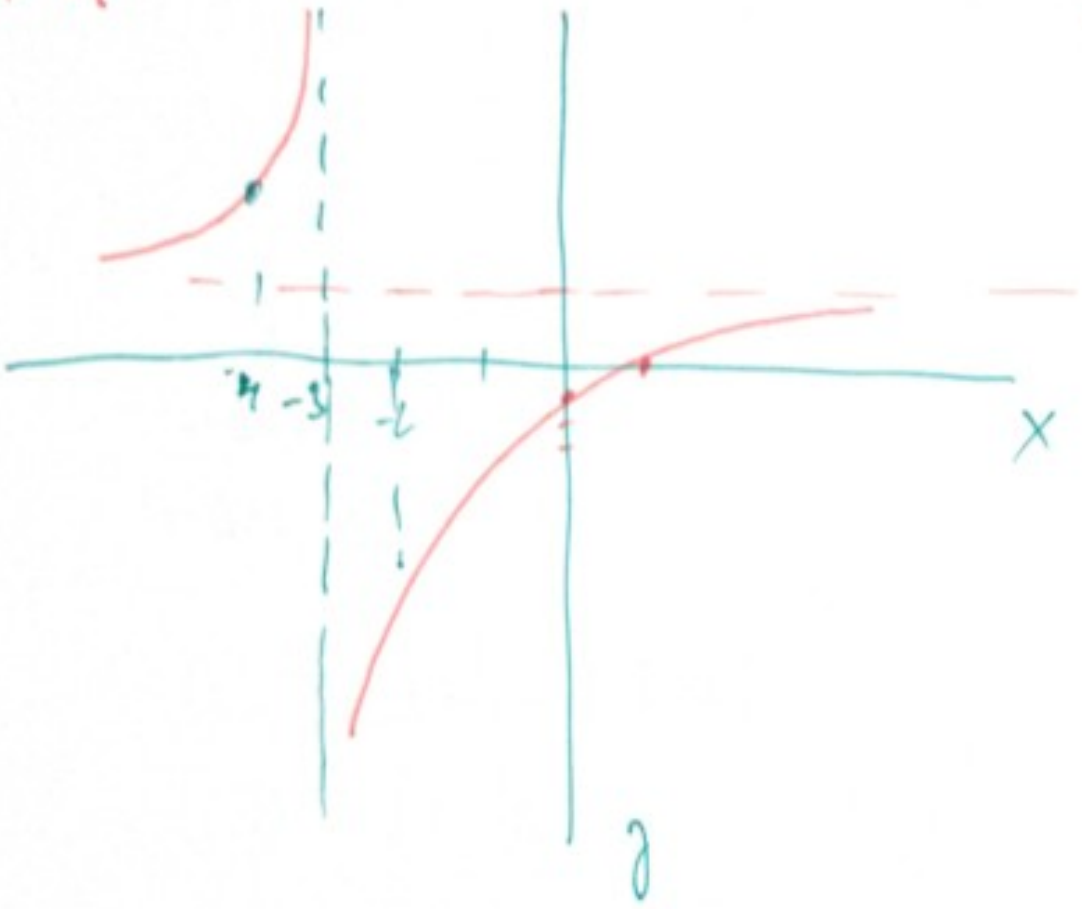
$\sqrt[4]{x}$

$a = \frac{1}{5}$

$\sqrt[5]{x}$

$$y = \frac{x-1}{x+3} = \frac{x+3-4}{x+3} = \frac{x+3}{x+3} - \frac{4}{x+3} = 1 - \frac{4}{x+3} \neq 1$$

$x \neq -3$ $\quad x_0$



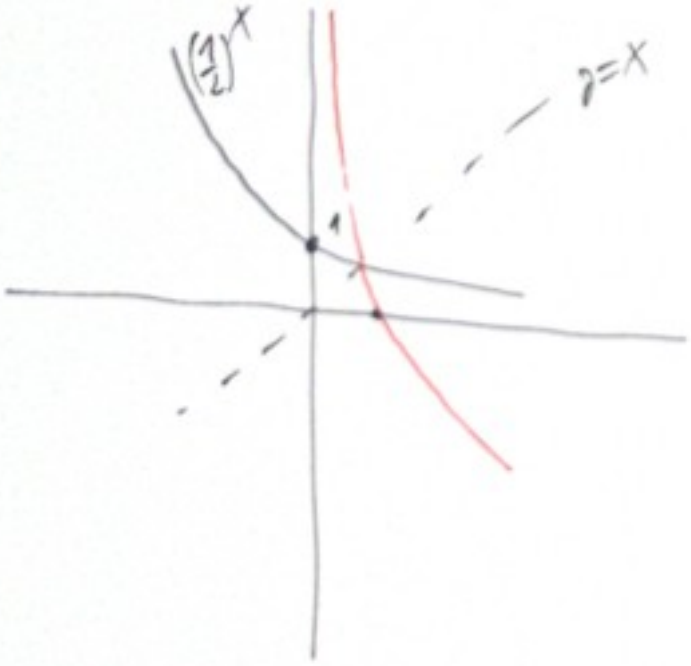
$x_1 < x_2 \Rightarrow f(x_1) < f(x_2)$

$-4 < -2$

~~$(-\infty, -3) \cup (-3, \infty)$~~

$0 < a < 1$

$1 < a$

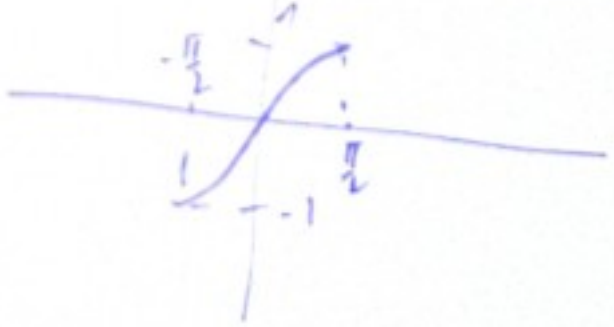


$a = e$

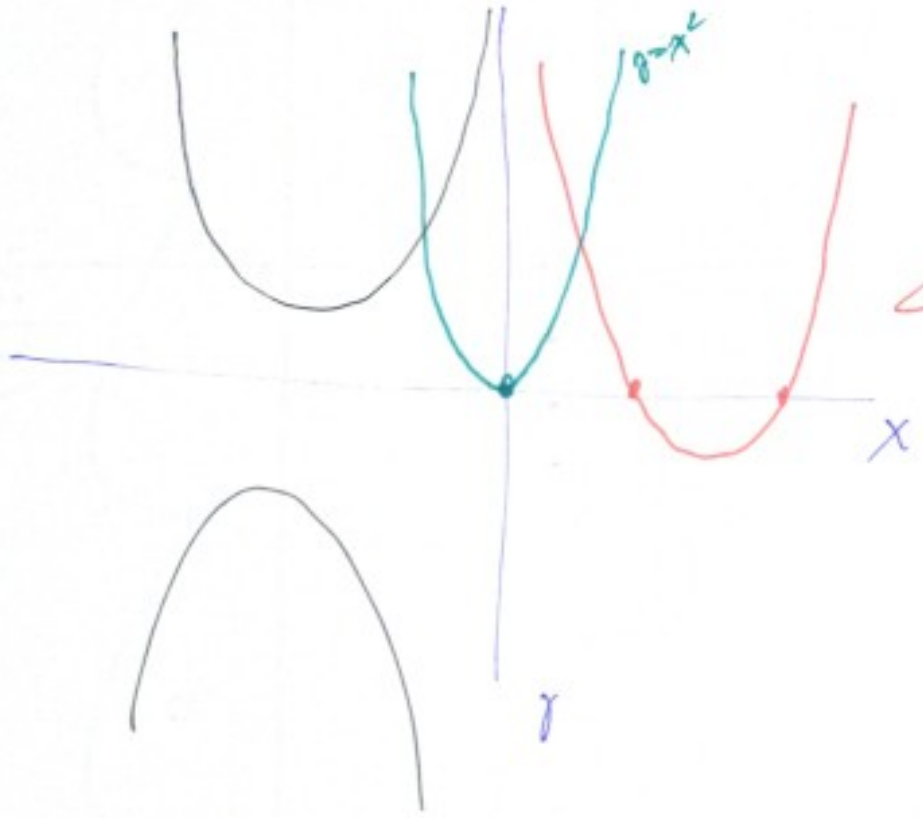
$\log_e x = \ln(x)$ $\quad 1^0$

$\arcsin(x+1)$

$-1 \leq x+1 \leq 1$



$f(x) = a_0 + a_1 x + a_2 x^2 + \dots + a_n \cdot x^n$

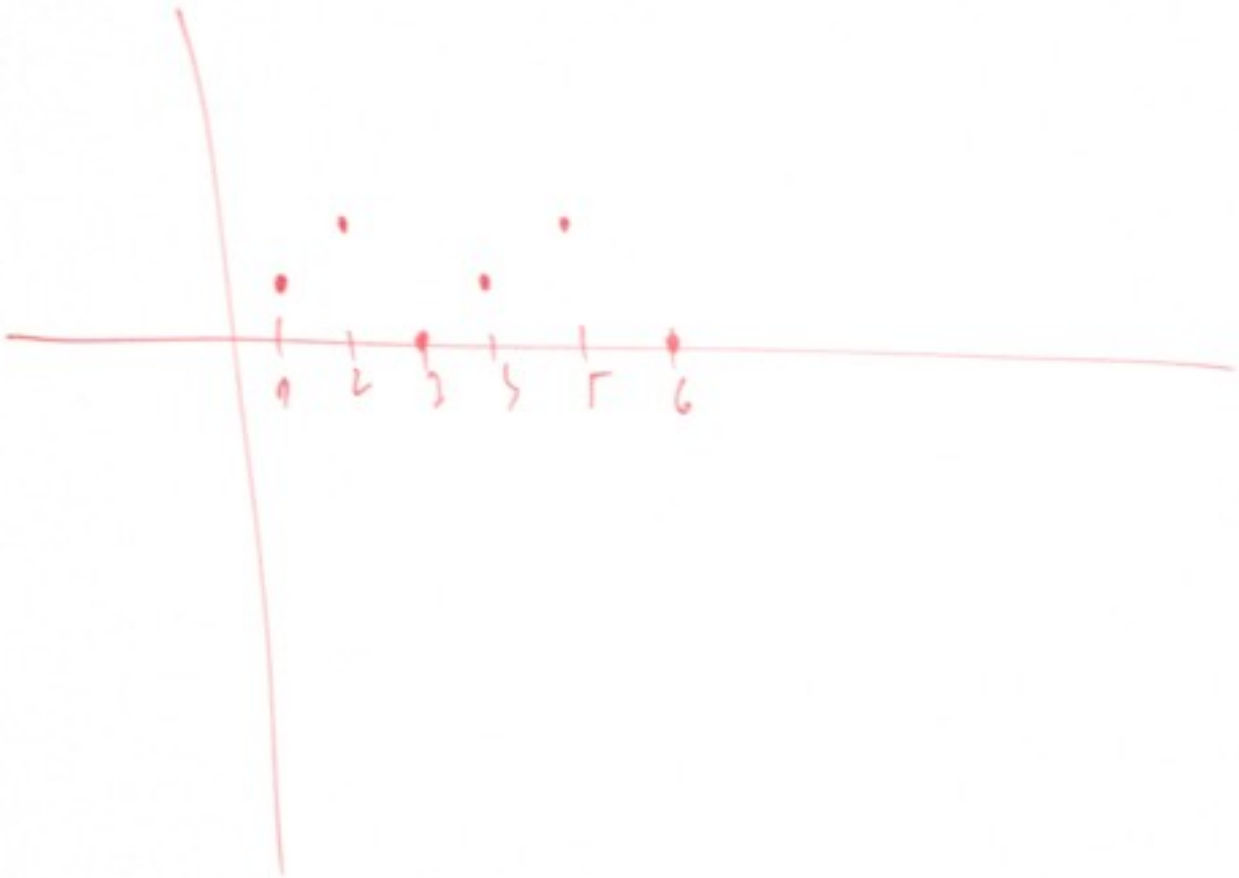


$ax^2 + bx + c = 0$

$a > 0$

$D \geq 0$

$D < 0$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