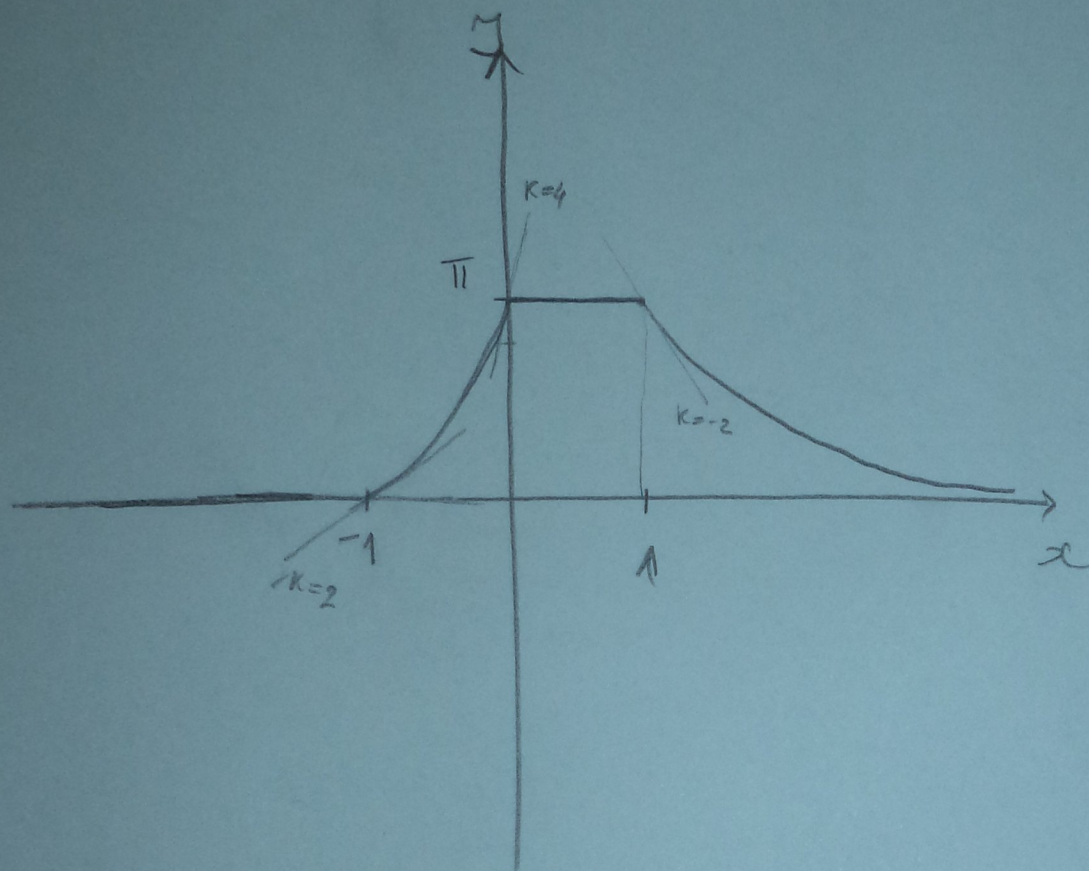


$$5^{\circ} f''(x) = \begin{cases} 0, & x \in (-\infty, -1) \\ \frac{-8x}{(x^2+1)^2}, & x \in (-1, 0) \\ 0, & x \in (0, 1) \\ \frac{8x}{(x^2+1)^2}, & x \in (1, +\infty) \end{cases}$$

$$f'' > 0 \text{ на } (-1, 0) \Rightarrow f \cup \text{на } (-1, 0)$$

$$f'' > 0 \text{ на } (1, +\infty) \Rightarrow f \cup \text{на } (1, +\infty)$$



$$\lim_{x \rightarrow 0^-} f'(x) = 4$$

ТТ pada огрежнута c_1 и c_2 .

$$c_2 = \lim_{x \rightarrow -\infty} f(x) = 0$$

$$c_1 = \lim_{x \rightarrow 0^+} f(x) = \pi$$