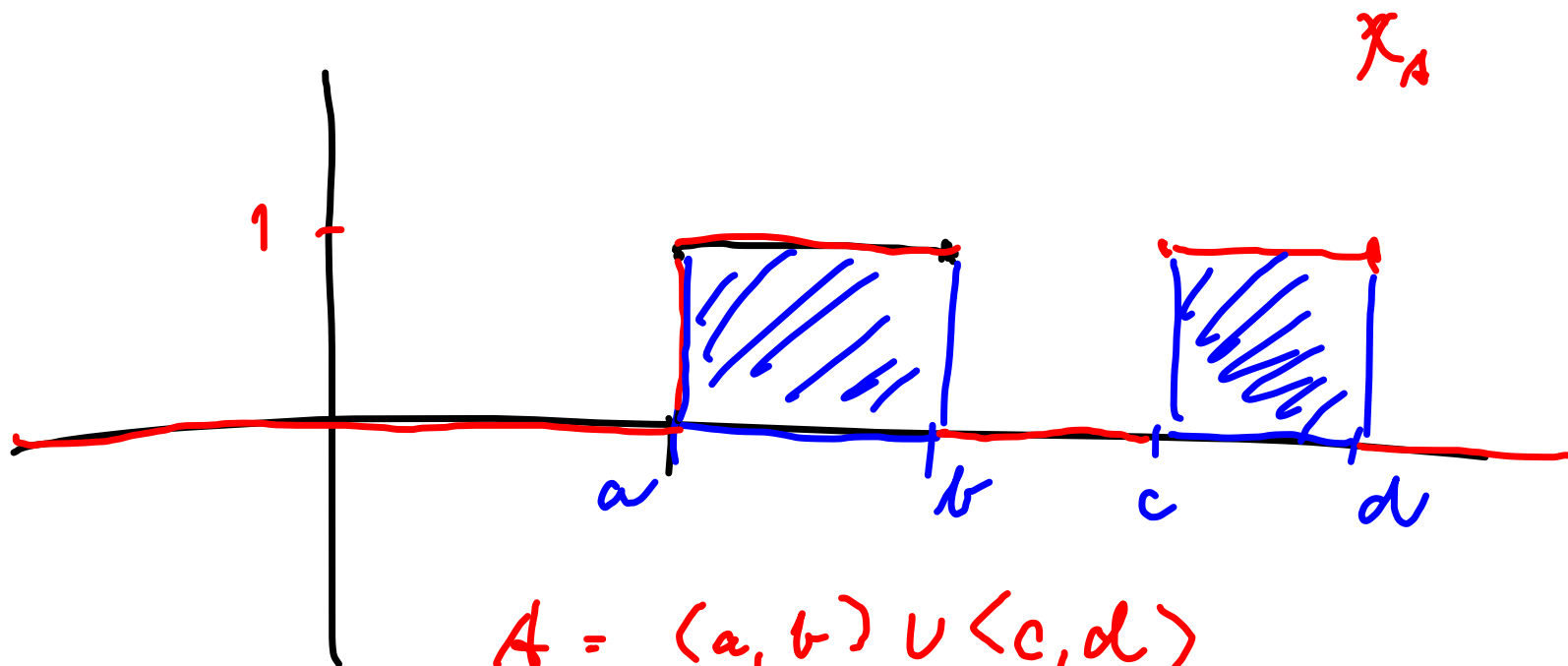


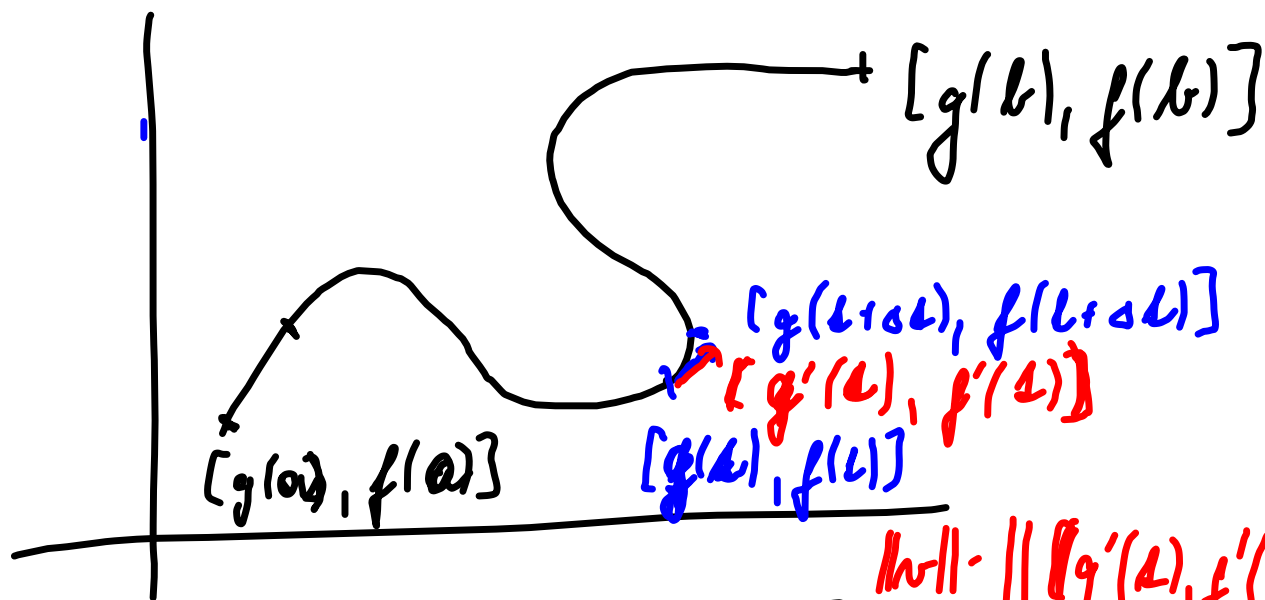
$$\frac{C_1}{(x-a)} + \frac{C_2}{(x-a)^2} + \dots + \frac{C_m}{(x-a)^m}$$



$$A = (a, b) \cup (c, d)$$

$$\int_{-\infty}^{\infty} x_a = \int_a^b 1 dx + \int_c^d 1 dx = (b-a) + (d-c)$$

$$\sum_{i \in \mathbb{Q}} x_{i \cdot 3} = x_a$$



$$F(t) = [g(t), f(t)]$$

$$\text{norm} \cdot \| [g'(t), f'(t)] \| = \sqrt{g'(t)^2 + f'(t)^2}$$

$$\| \Delta s \| \approx \| \text{tangent} \| \Delta t$$

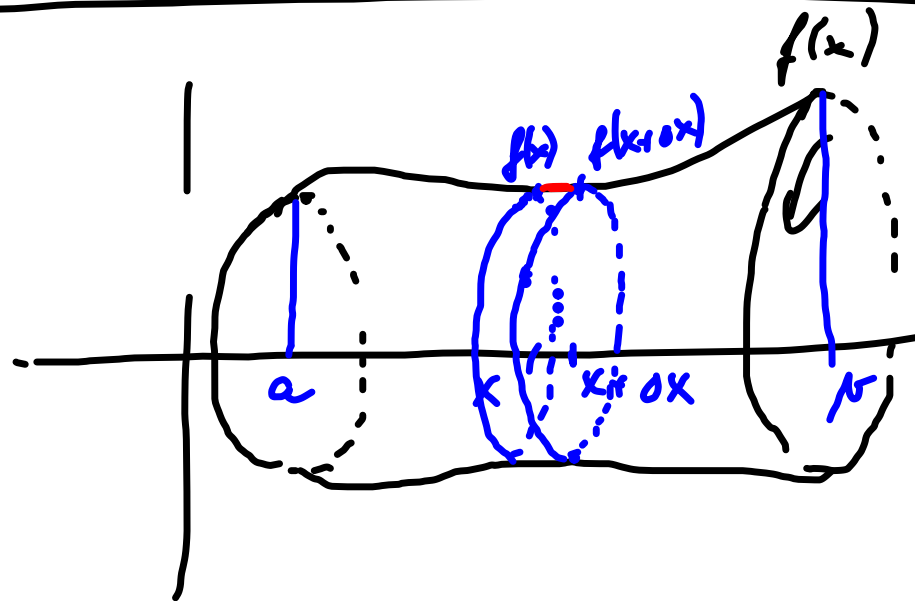
$$= \sqrt{g'(t)^2 + f'(t)^2} \Delta t$$

$$L = \int_a^b \sqrt{\quad}$$

Param. vyjádření grafu fce:

$$[x, f(x)]$$

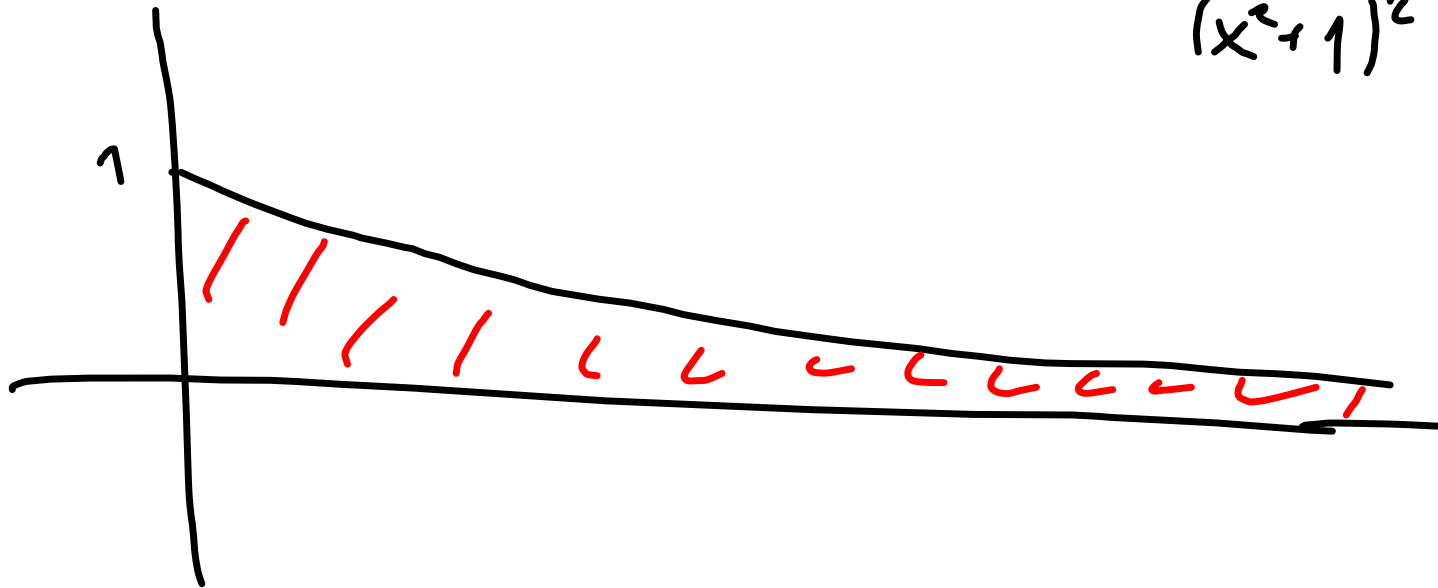
$$L = \int_a^b \sqrt{1 + f'(x)^2} dx$$

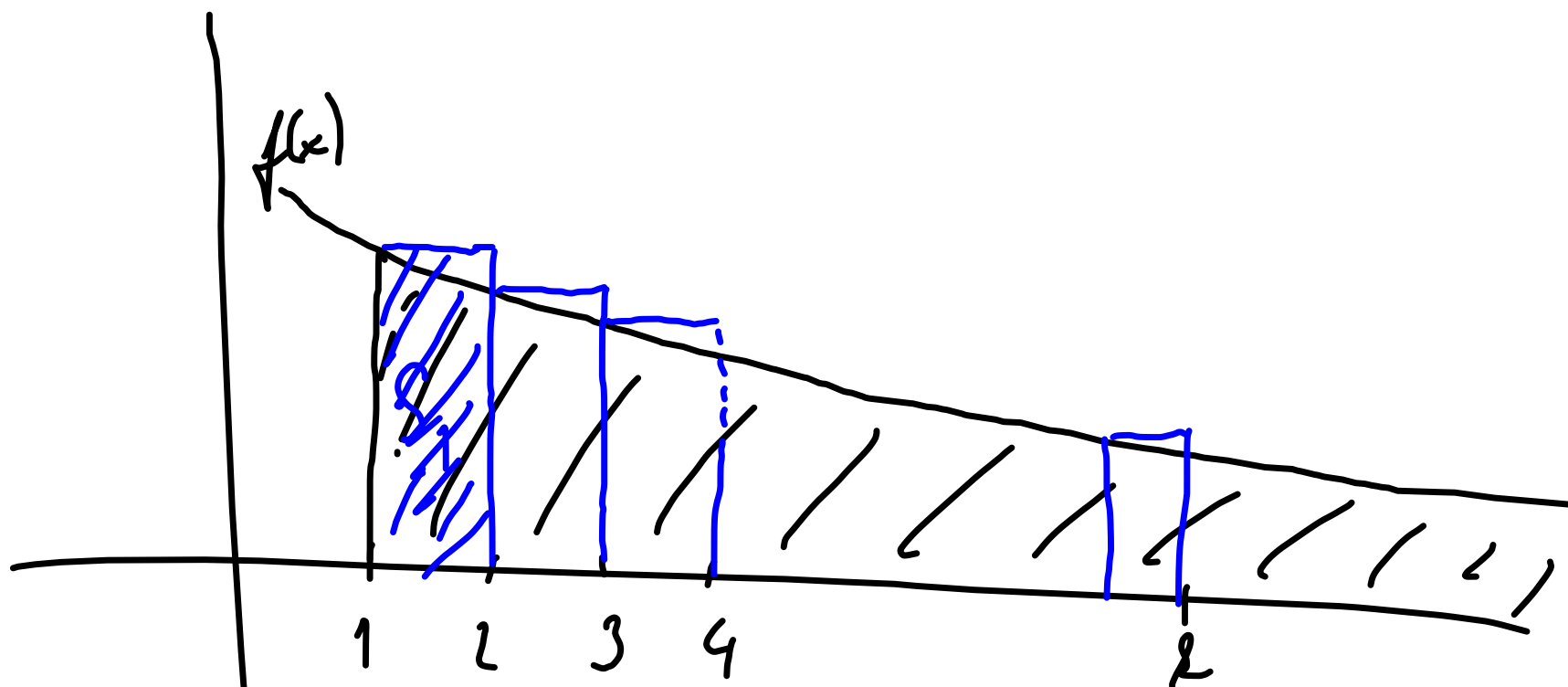


$$\pi (r_1 + r_2) h$$

$$r_1 = \sqrt{1 + f'(x)^2} dx$$

$$\frac{x}{(x^2+1)^2}$$





$$S_1 = f(1) \cdot 1 = \int_1^2 f(x) dx$$

$$\int_1^2 f(x) dx = \lim_{n \rightarrow \infty} \sum_{k=1}^n f(x_k) \Delta x \leq \lim_{n \rightarrow \infty} S_n < \dots$$

$$\sum_{i=1}^{\infty} f(i) \text{ diverguje} \Rightarrow \sum_{i=2}^{\infty} f(i) \text{ diverguje}$$

