

$$s_1 = f_1$$

$$s_2 = f_1 + f_2$$

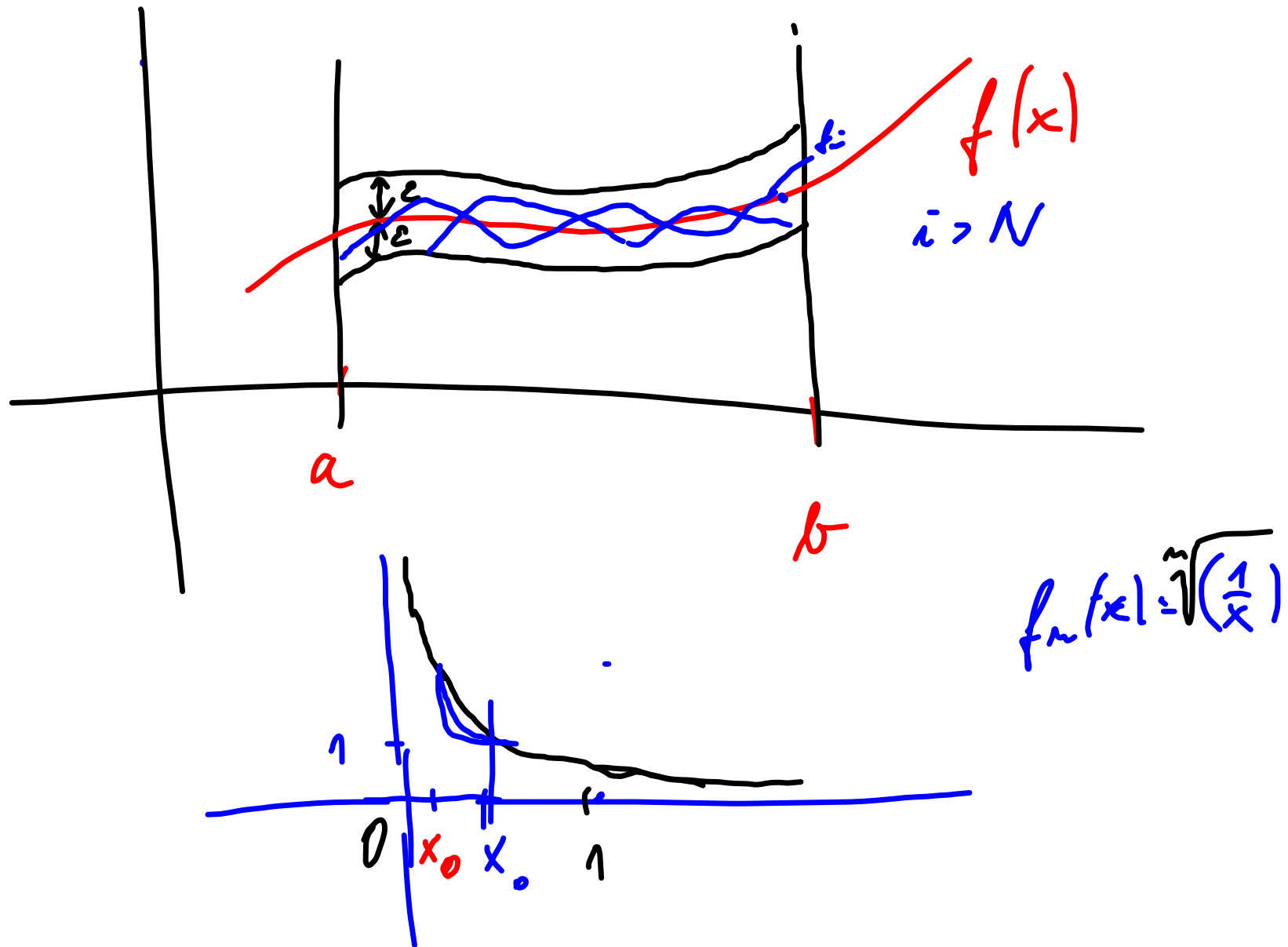
$$s_3 = f_1 + f_2 + f_3$$

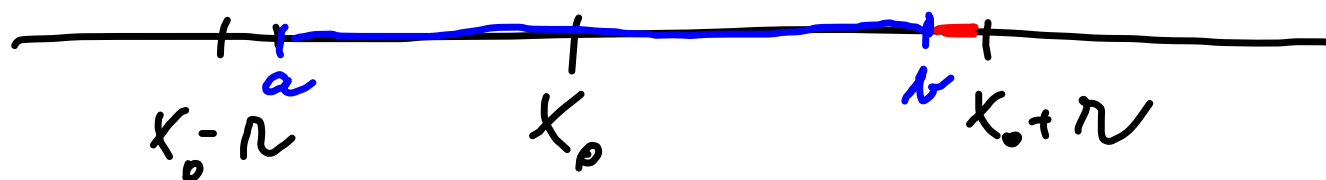
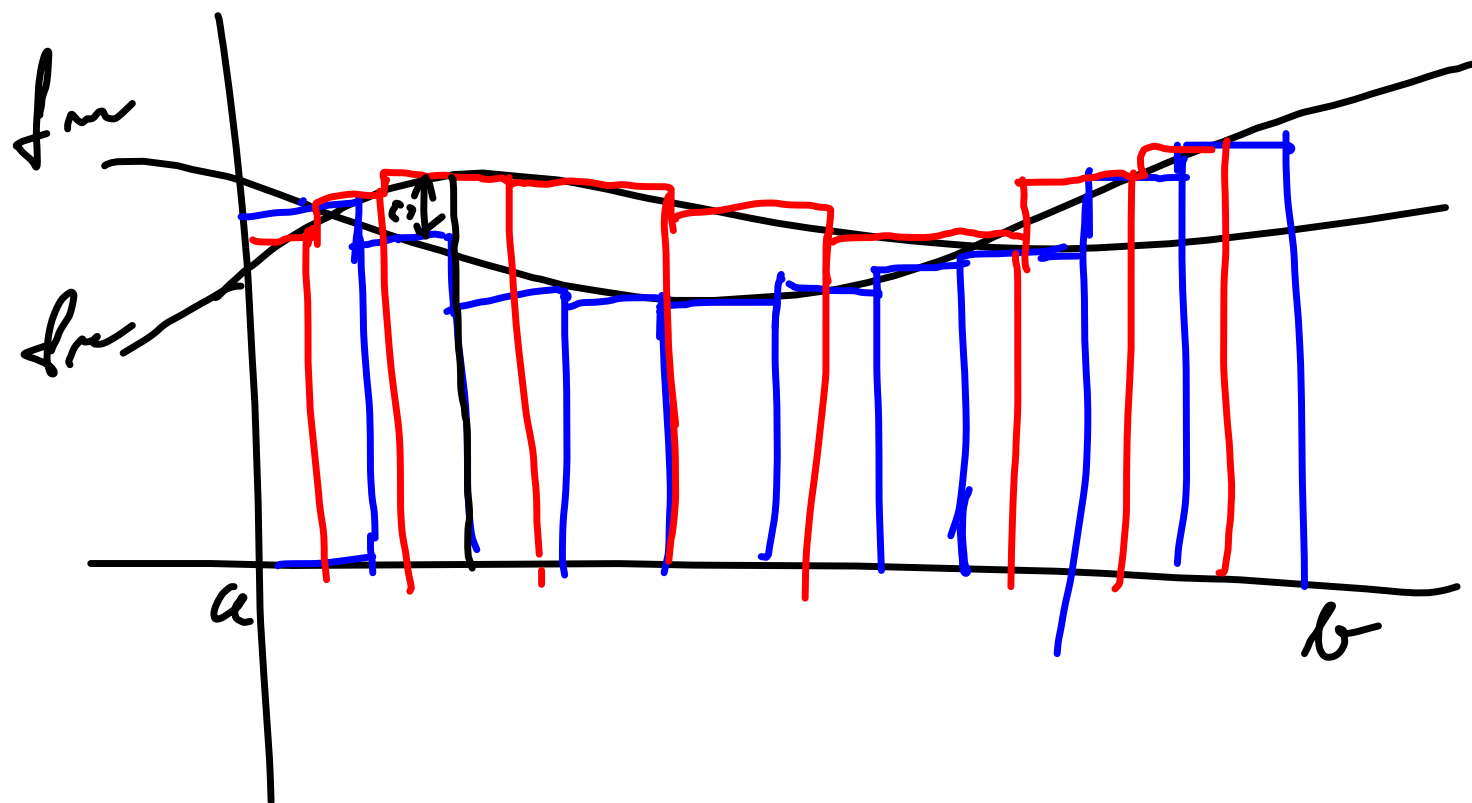
$$\sum_{n=1}^{\infty} f_n$$

$$s_i = \sum_{n=1}^i f_n$$

$$s_1(x_0), s_2(x_0), s_3(x_0)$$

s je limitou postupnosti $\{s_i\}_{i=1}^{\infty}$ na int. $[a, b]$,
 jestliže $\forall x_0 \in [a, b]: \lim_{n \rightarrow \infty} s_n(x_0) = s(x_0)$





$$\begin{aligned}\langle f+h, g \rangle &= \int_a^b (f(x)+h(x))g(x) dx = \\ &= \int_a^b f(x)g(x) dx + \int_a^b h(x)g(x) dx = \\ &= \langle f, g \rangle + \langle h, g \rangle\end{aligned}$$