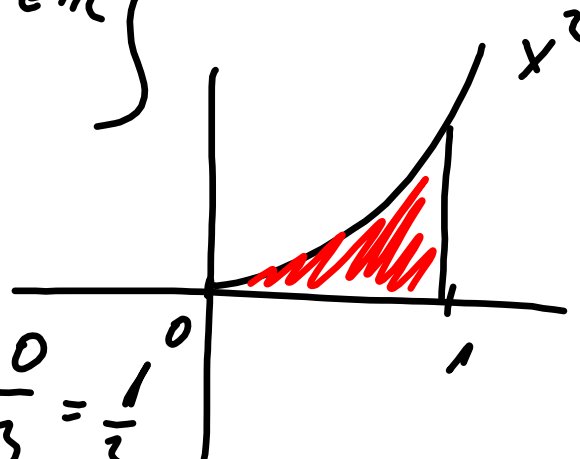
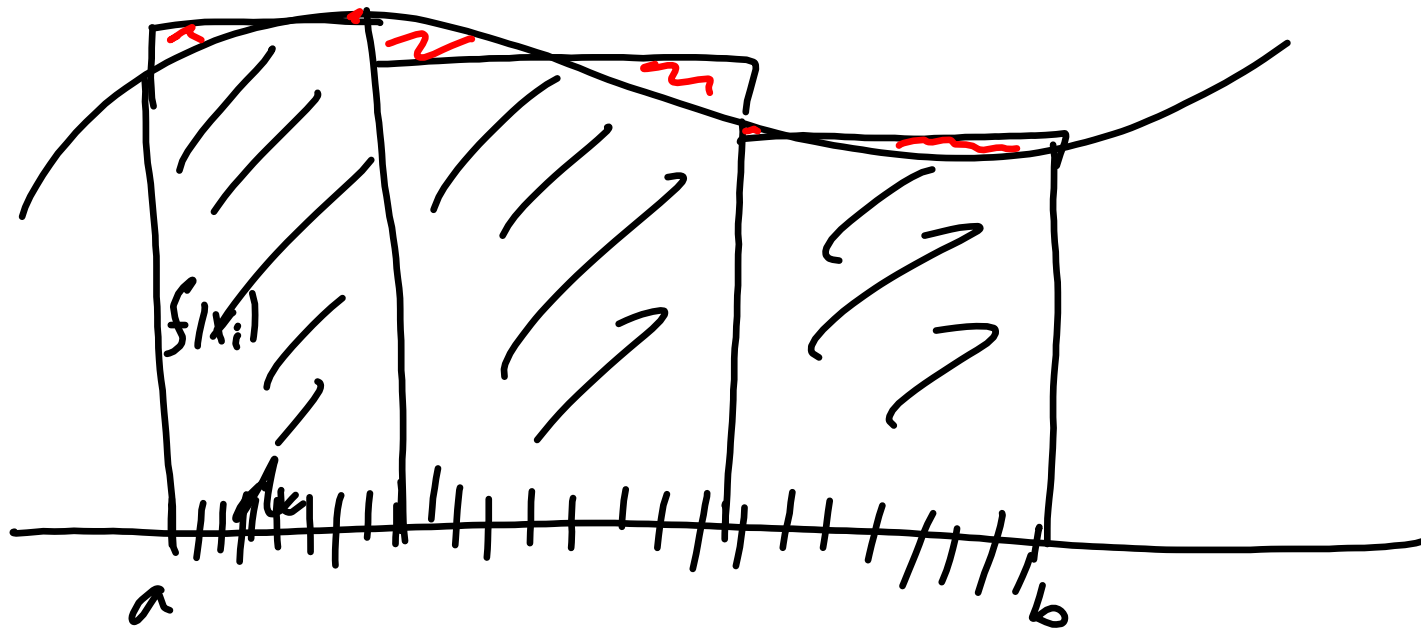
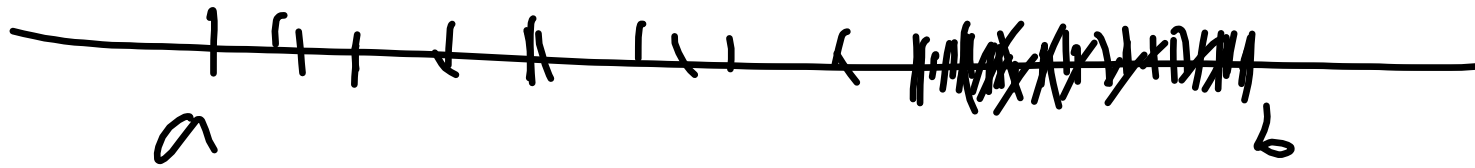
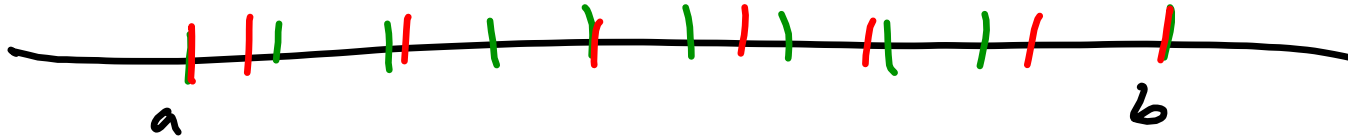


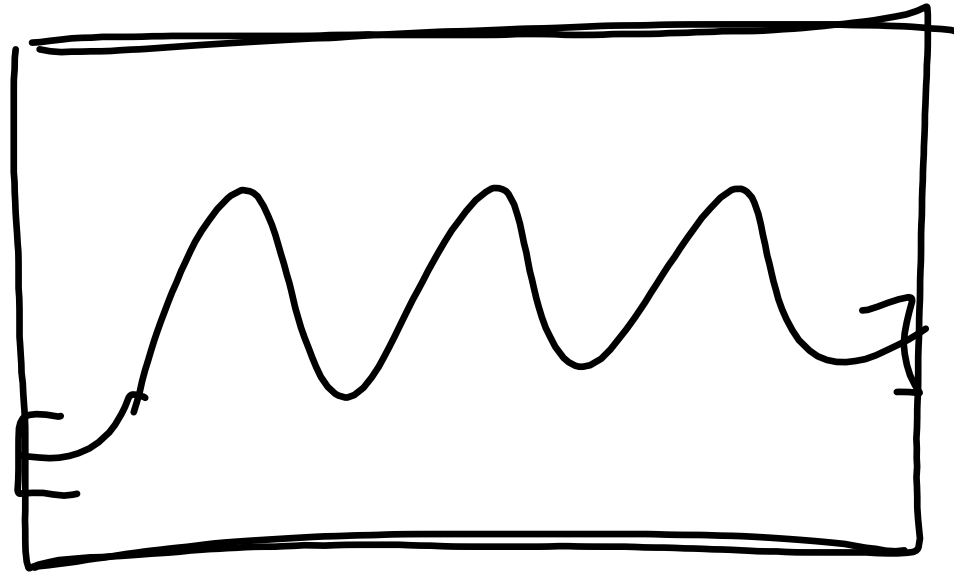
$$\int x^2 dx = \left\{ \frac{x^3}{3} + C, C \in \mathbb{R} \right\}$$

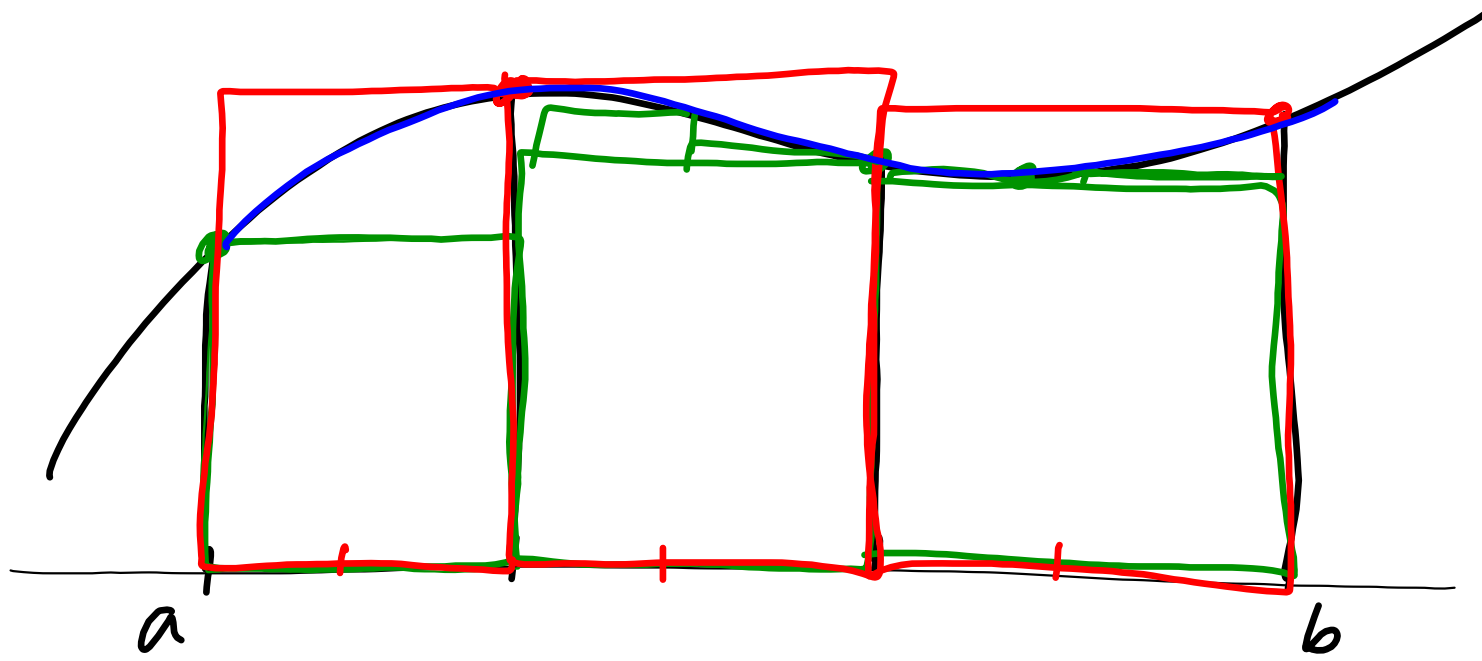
$$\int_0^1 x^2 dx = \left[\frac{x^3}{3} \right]_0^1 = \frac{1}{3} - \frac{0}{3} = \underline{\underline{\frac{1}{3}}}$$

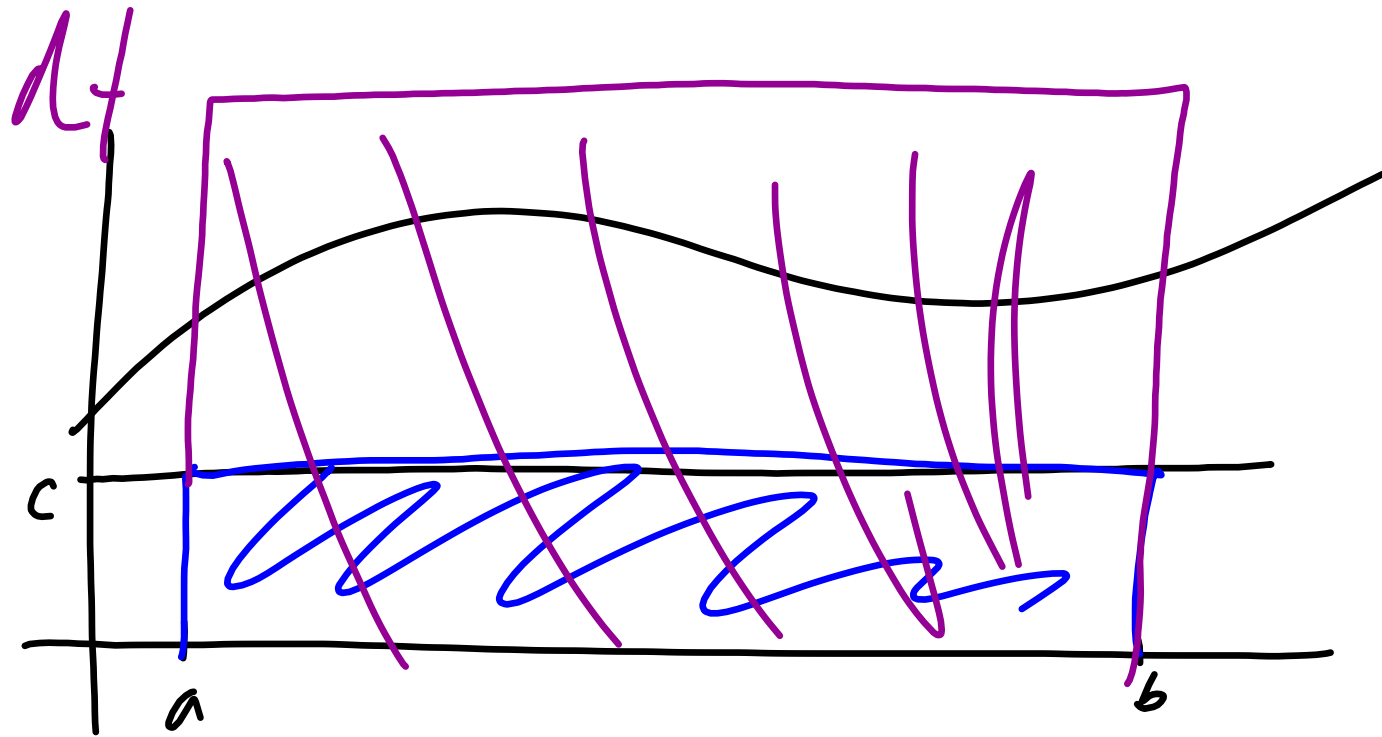








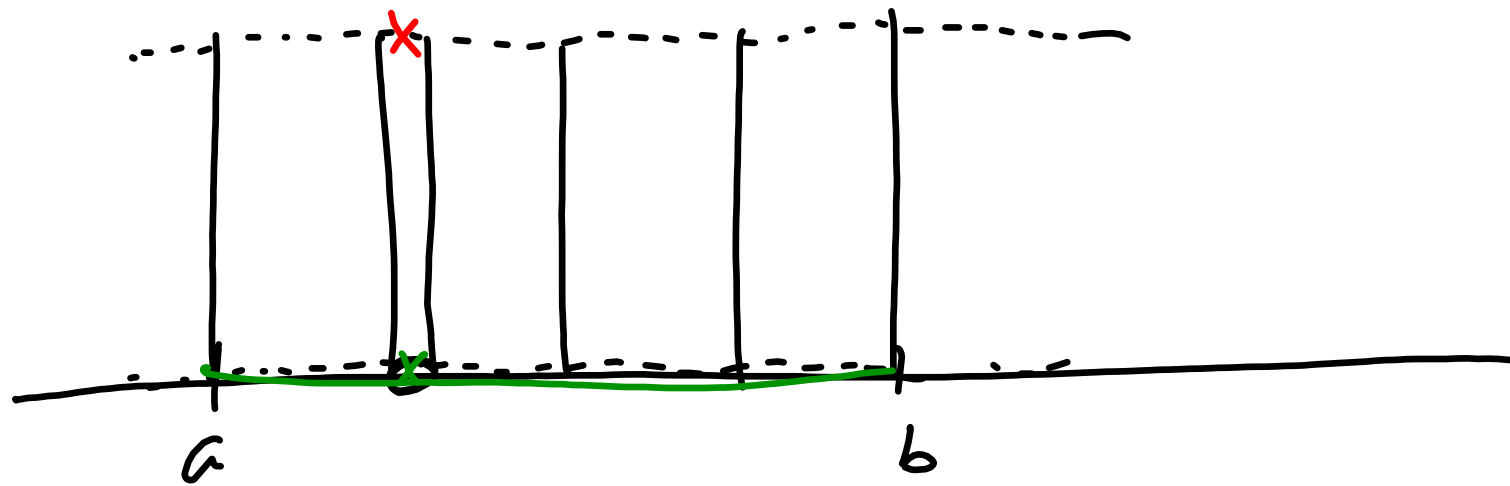




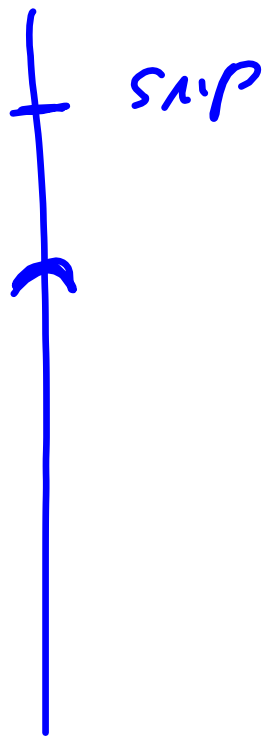
b
 \int

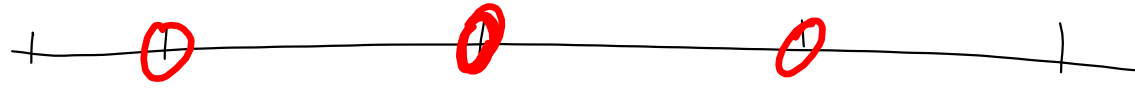
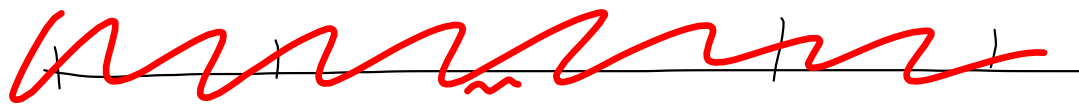
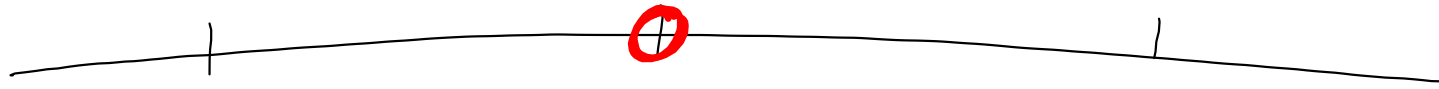
 a

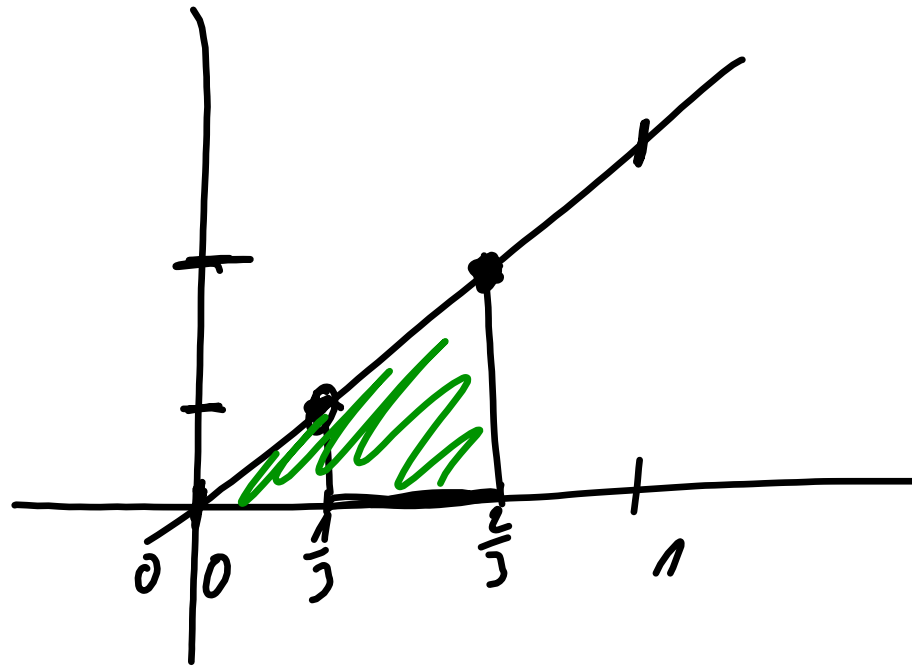
$$s = 0 \neq S = b - a$$



f SVP

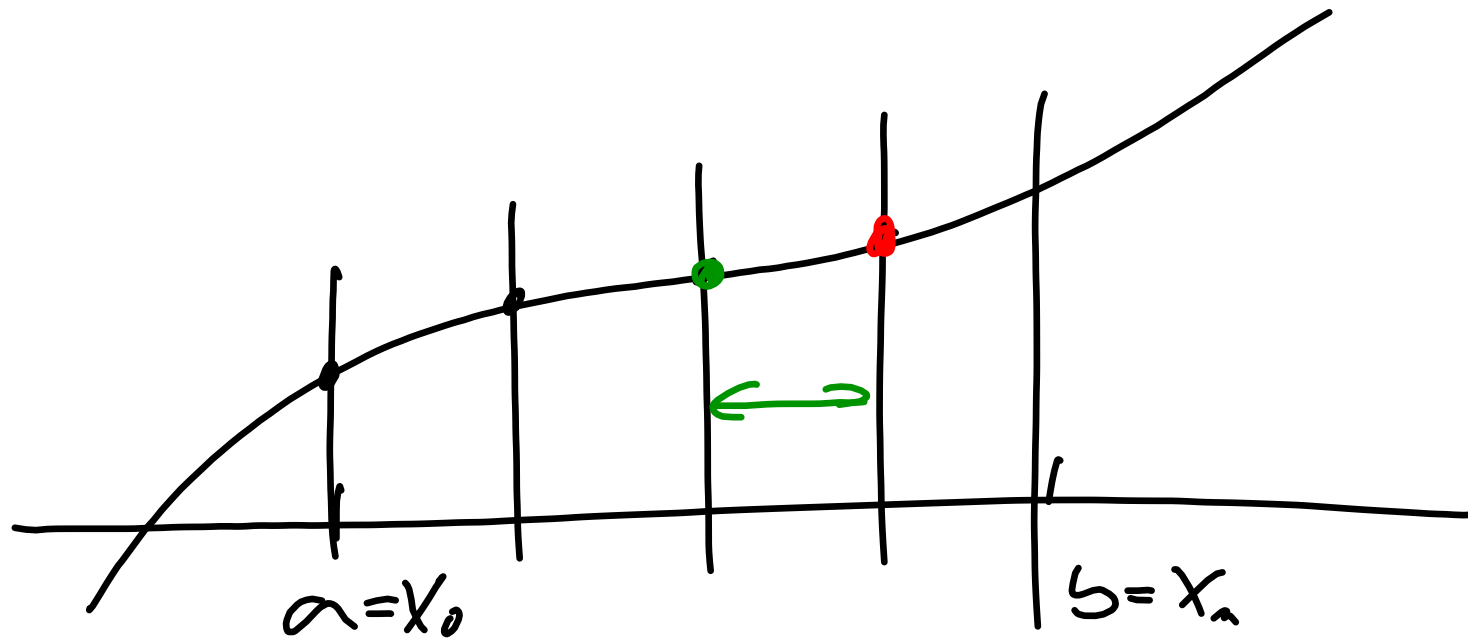


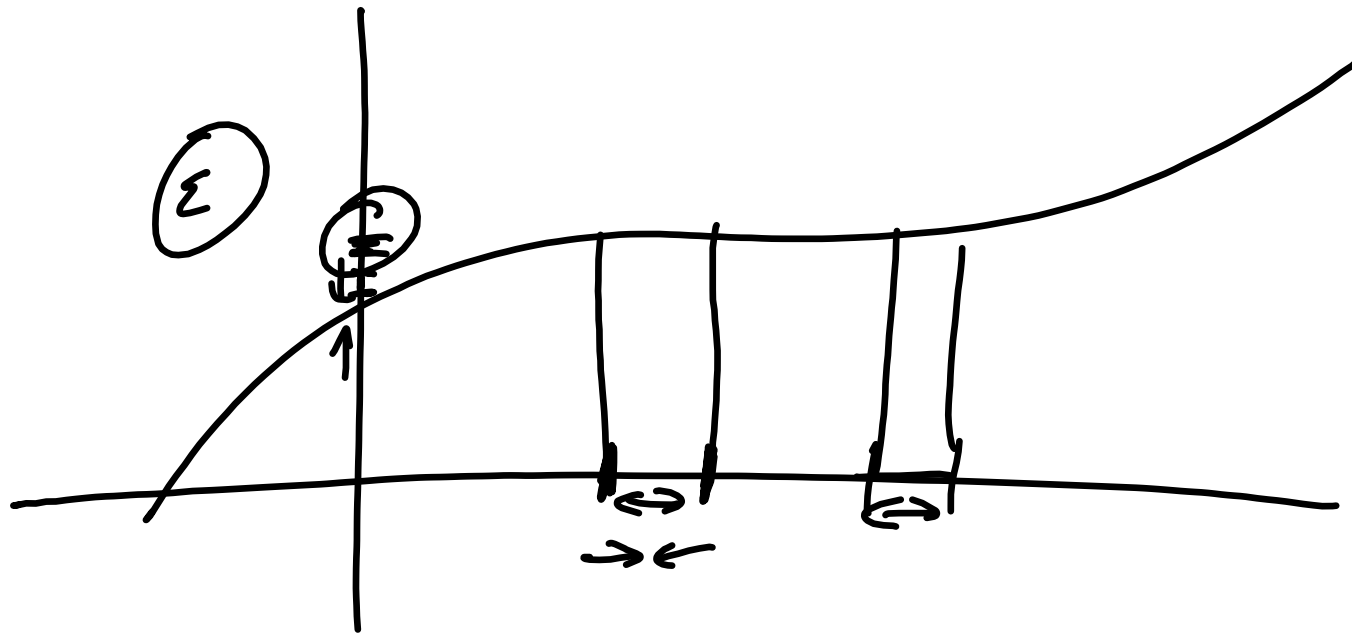


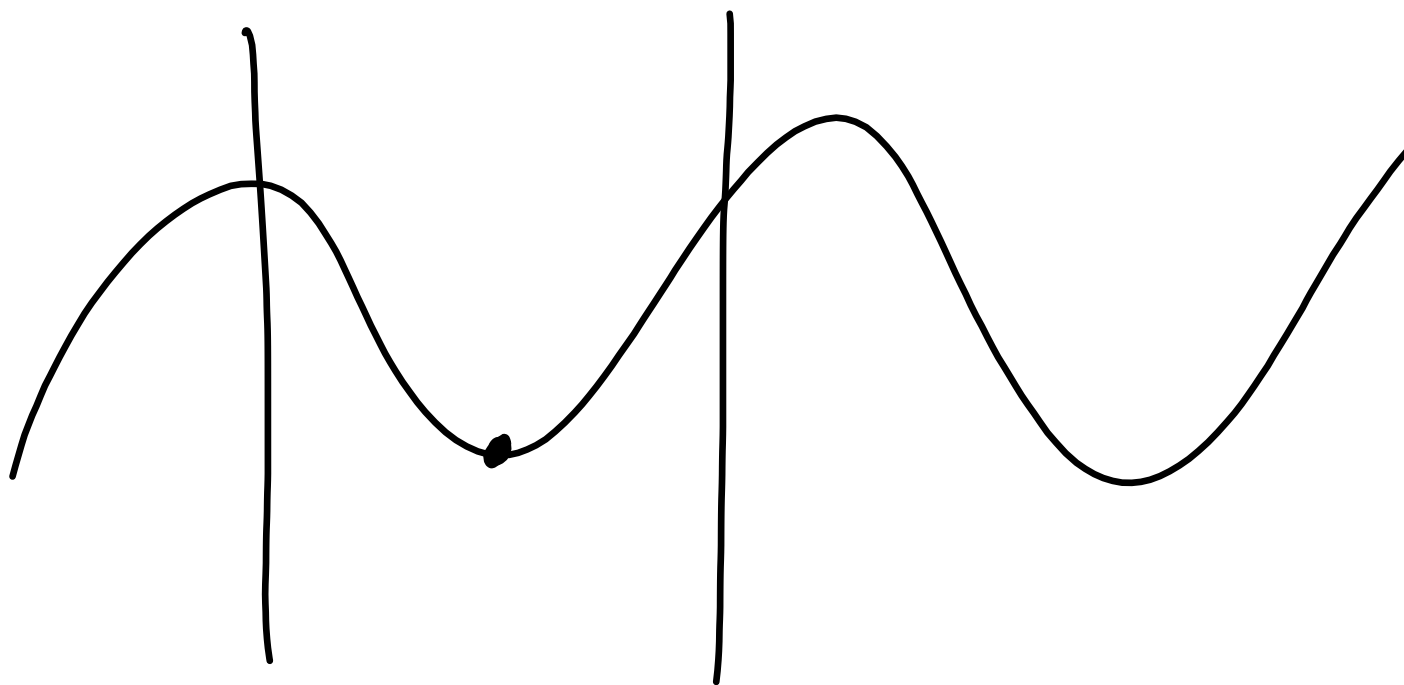


$$\begin{array}{r} 1 + 2 + 3 + \dots + 99 + 100 \\ 100 + 99 + \dots - 2 + 1 \\ \hline \end{array}$$

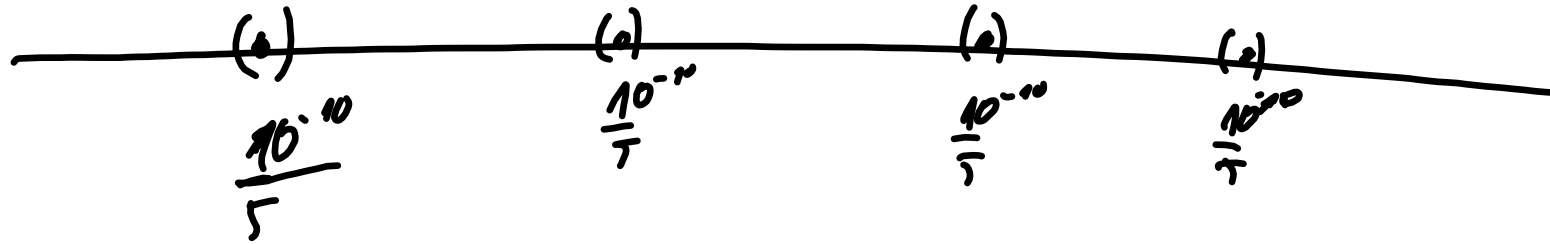
$$\frac{100 \times 101}{2}$$



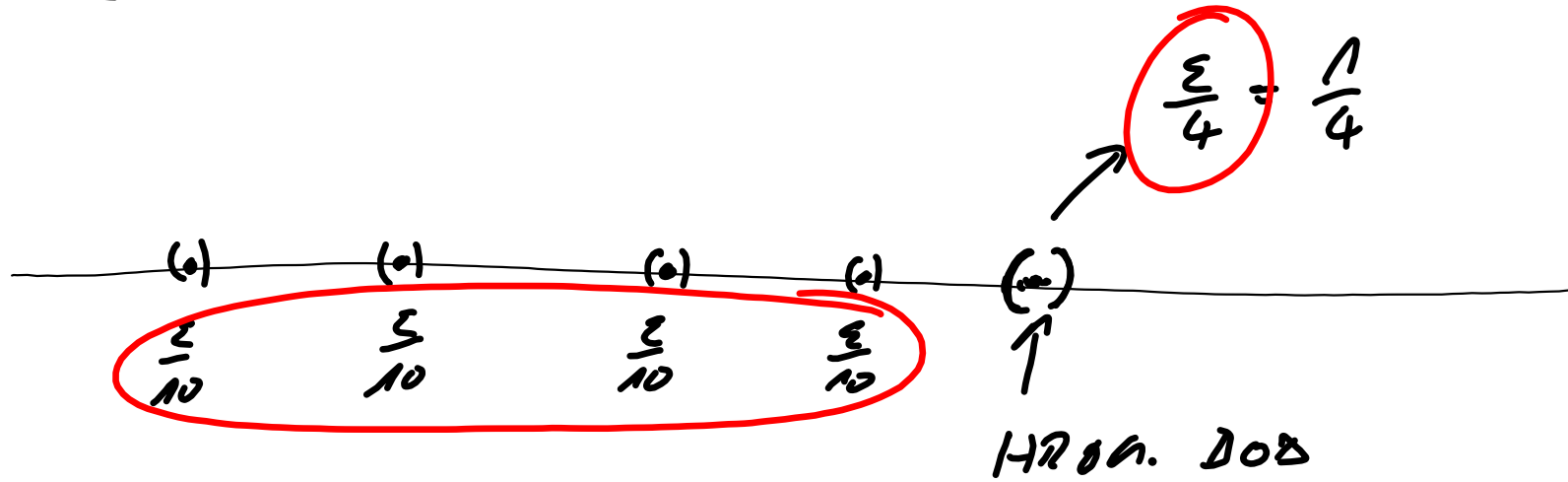


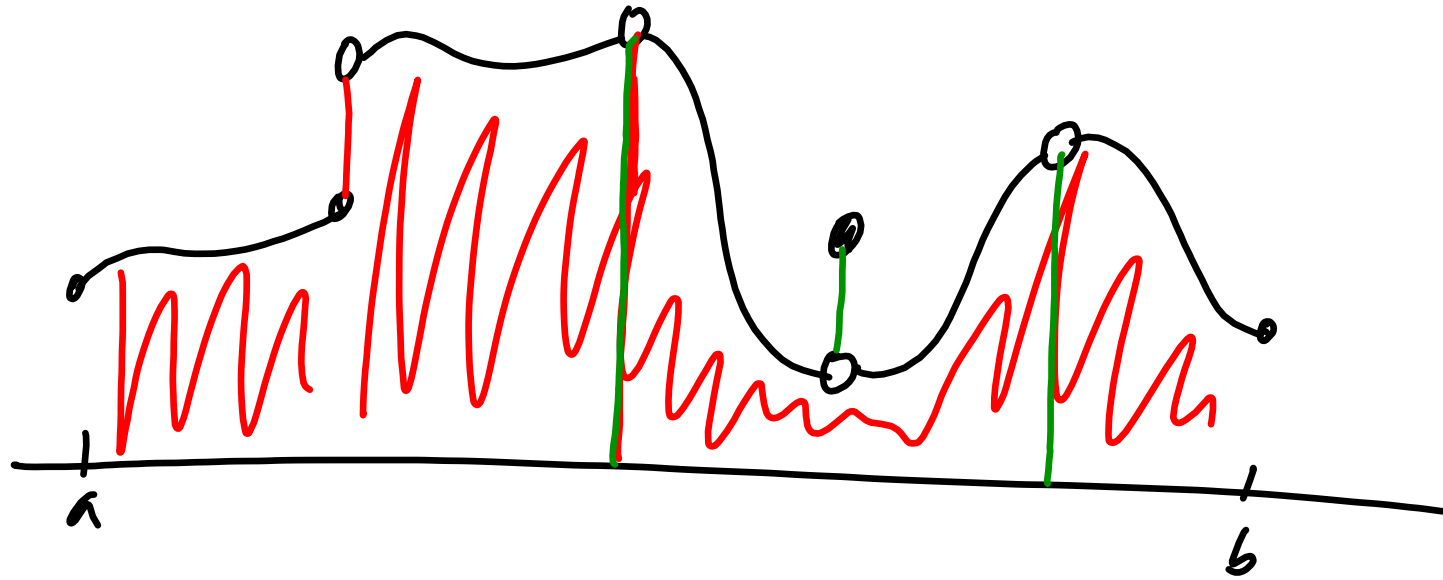


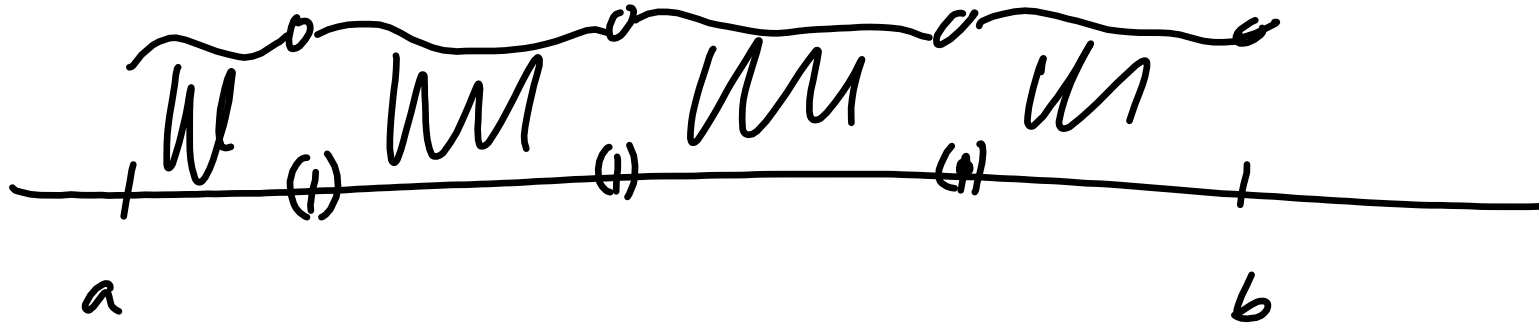
$$\Sigma = 10^{-10}$$

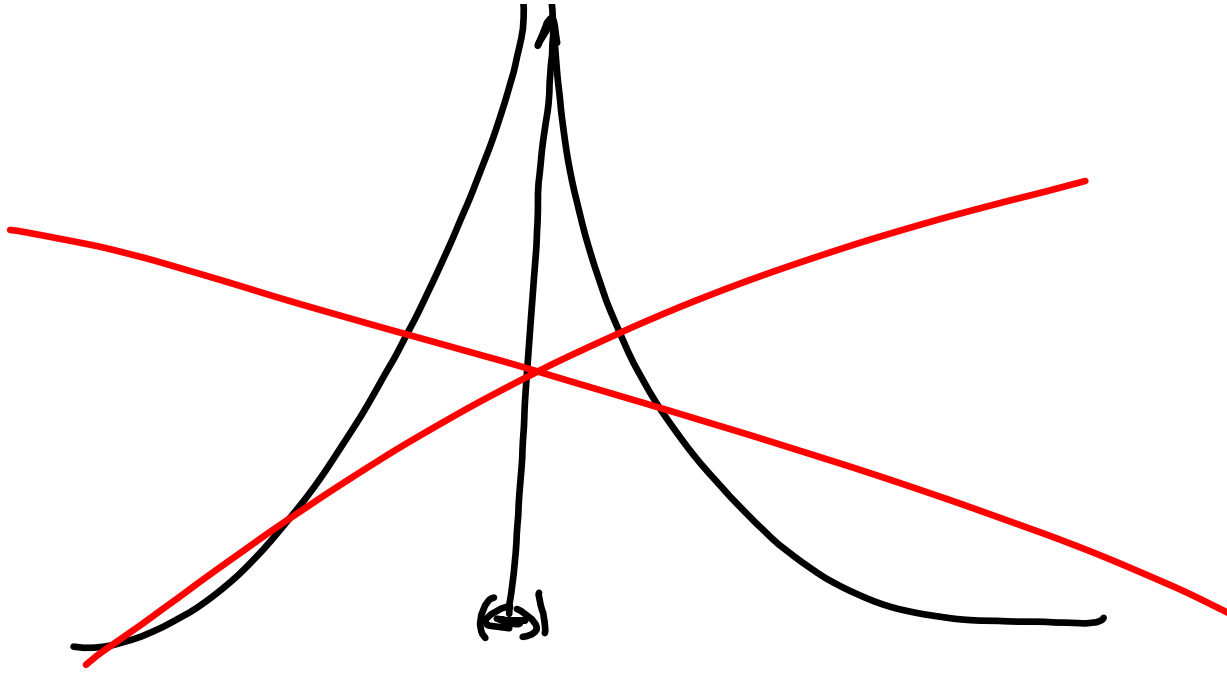


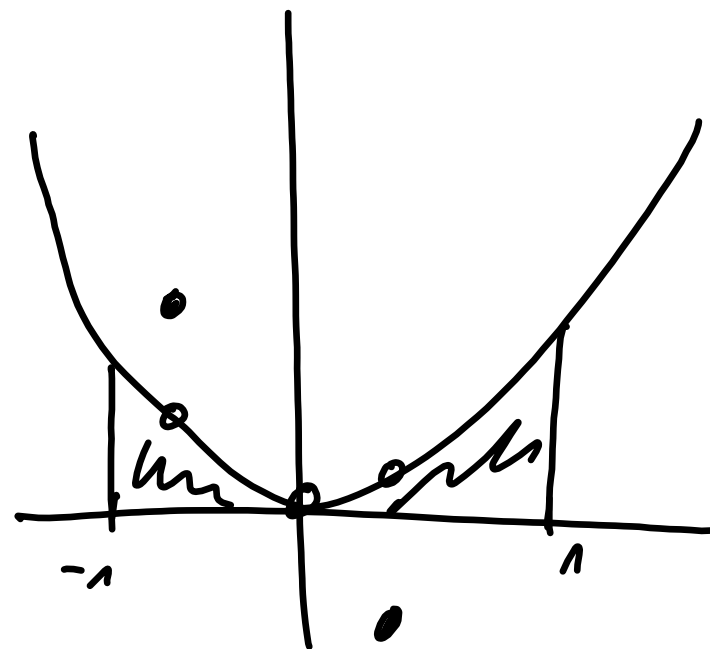
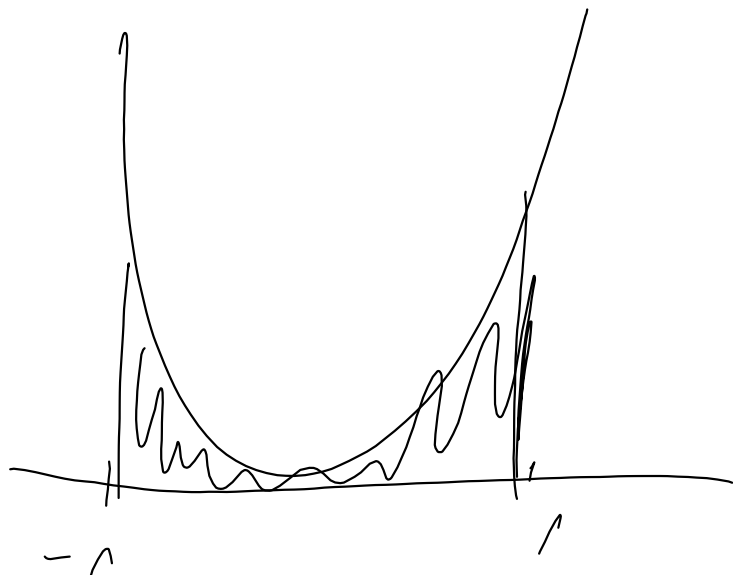
$$\xi = 1$$











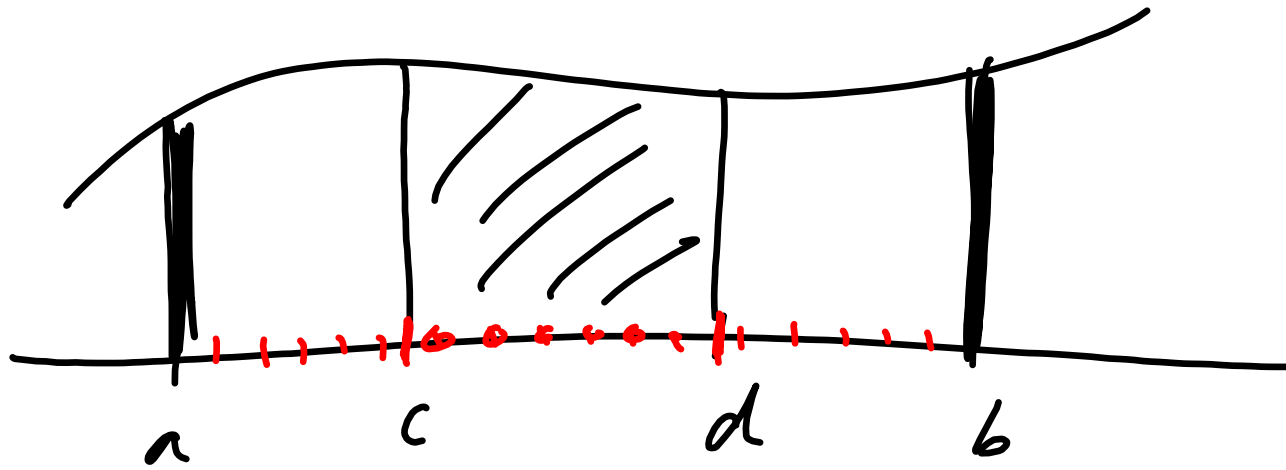
$$\textcircled{g > 0} \text{ w. } \underline{g \geq c > 0}$$

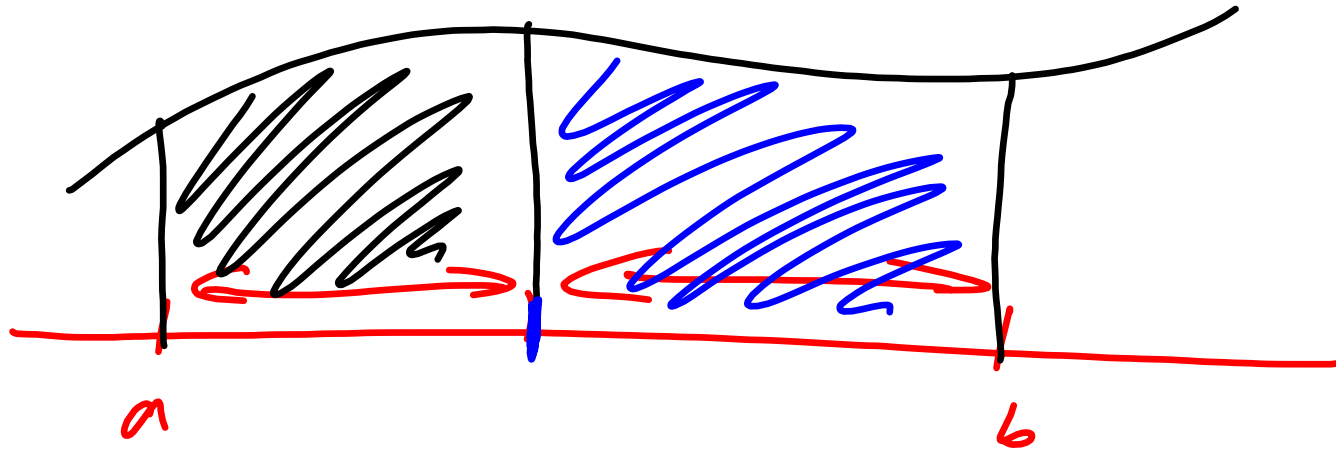
$$\min (f + g) \cong \min f + \min g$$

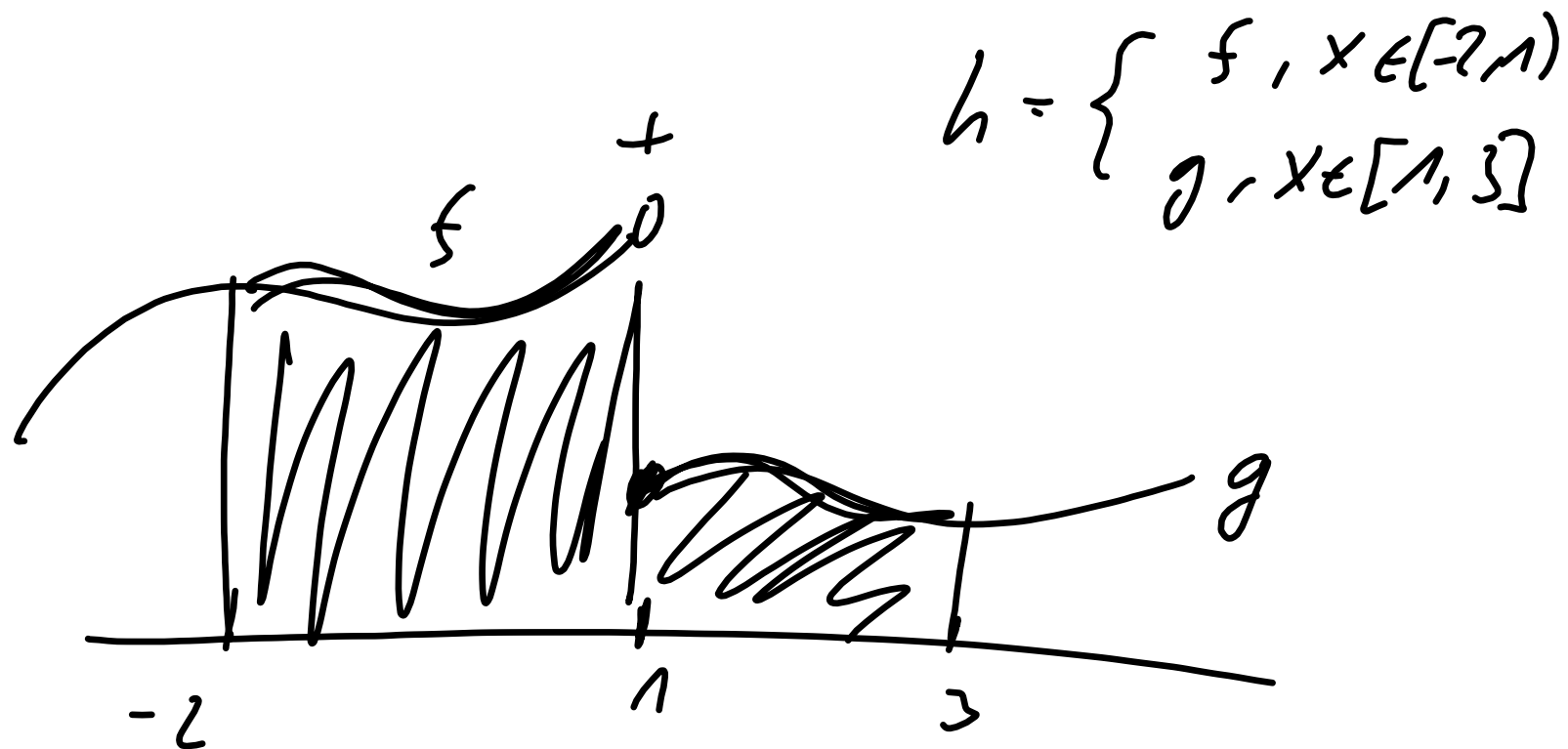
5 7

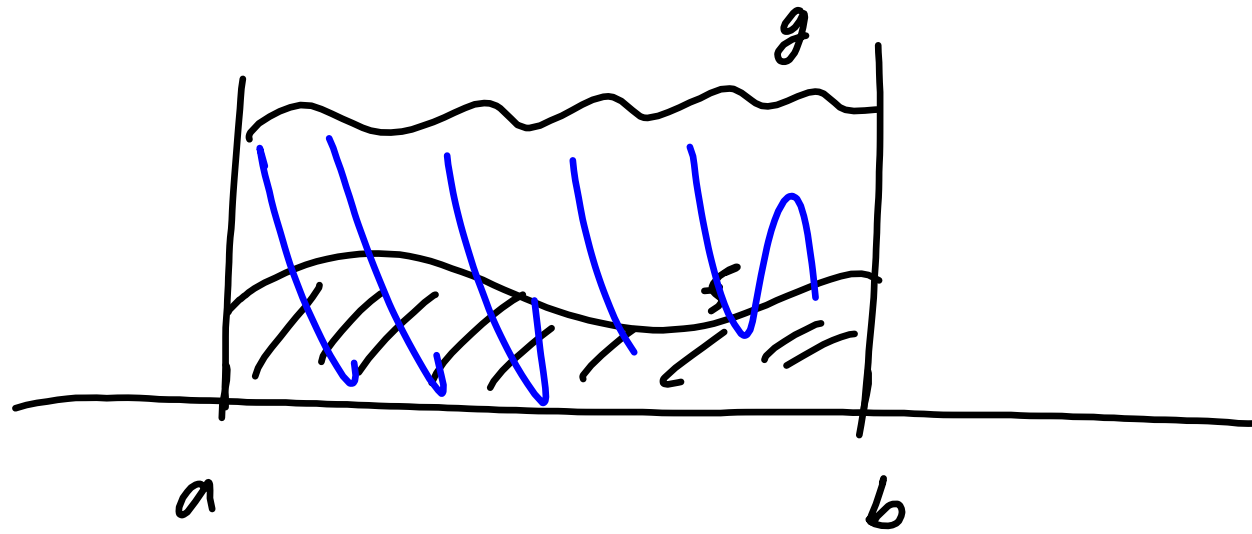
$$5 \leq A \leq B \leq 5$$

$$A = B = 5$$

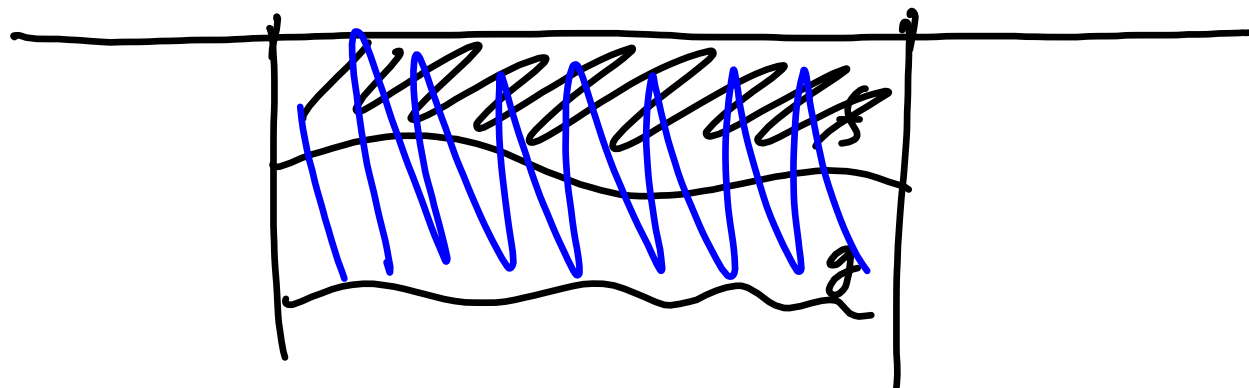


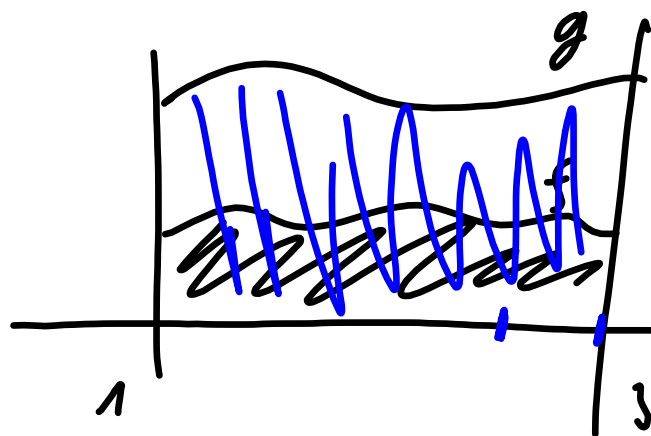






$$\int_a^b f dx \geq \int_a^b g dx$$





$$\begin{aligned} \int_1^3 f \, dx &= \int_1^3 g \, dx \\ &= -\int_1^3 f \, dx \geq -\int_1^3 g \, dx \end{aligned}$$

$$|5 + (-3)| \leq |5| + |-3|$$

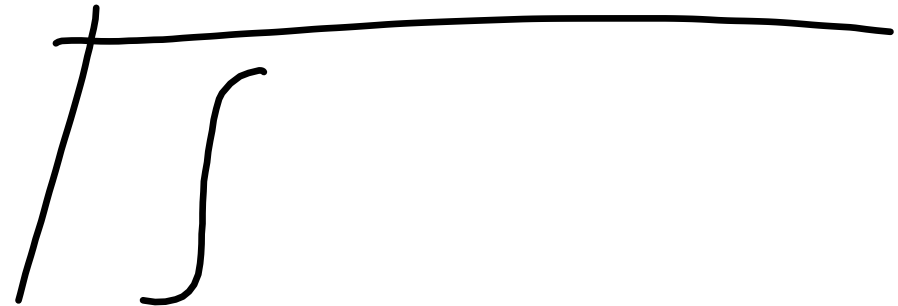
$$|2| \leq 5 + 3$$

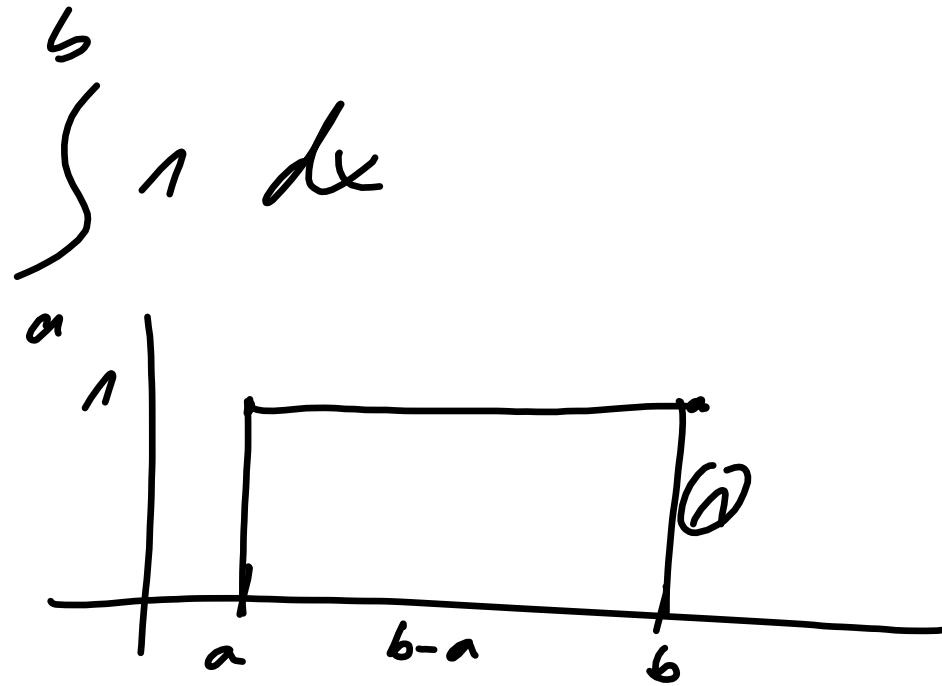
$$2 \leq 8$$

$$\sum f(x_i) \cdot (x_i - x_{i-1})$$

$$\sum f(x_i) \Delta x \quad n \rightarrow \infty$$

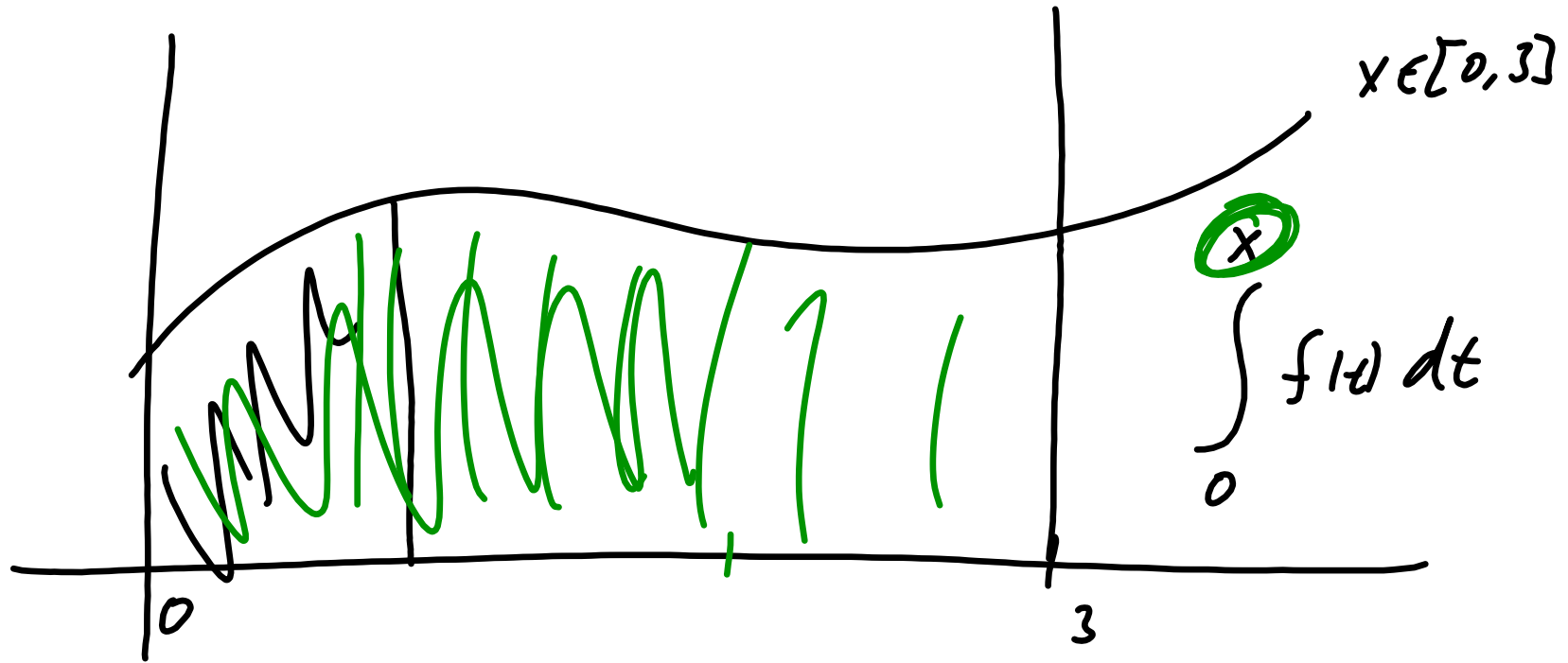
$$\int_a^b f(x) dx$$

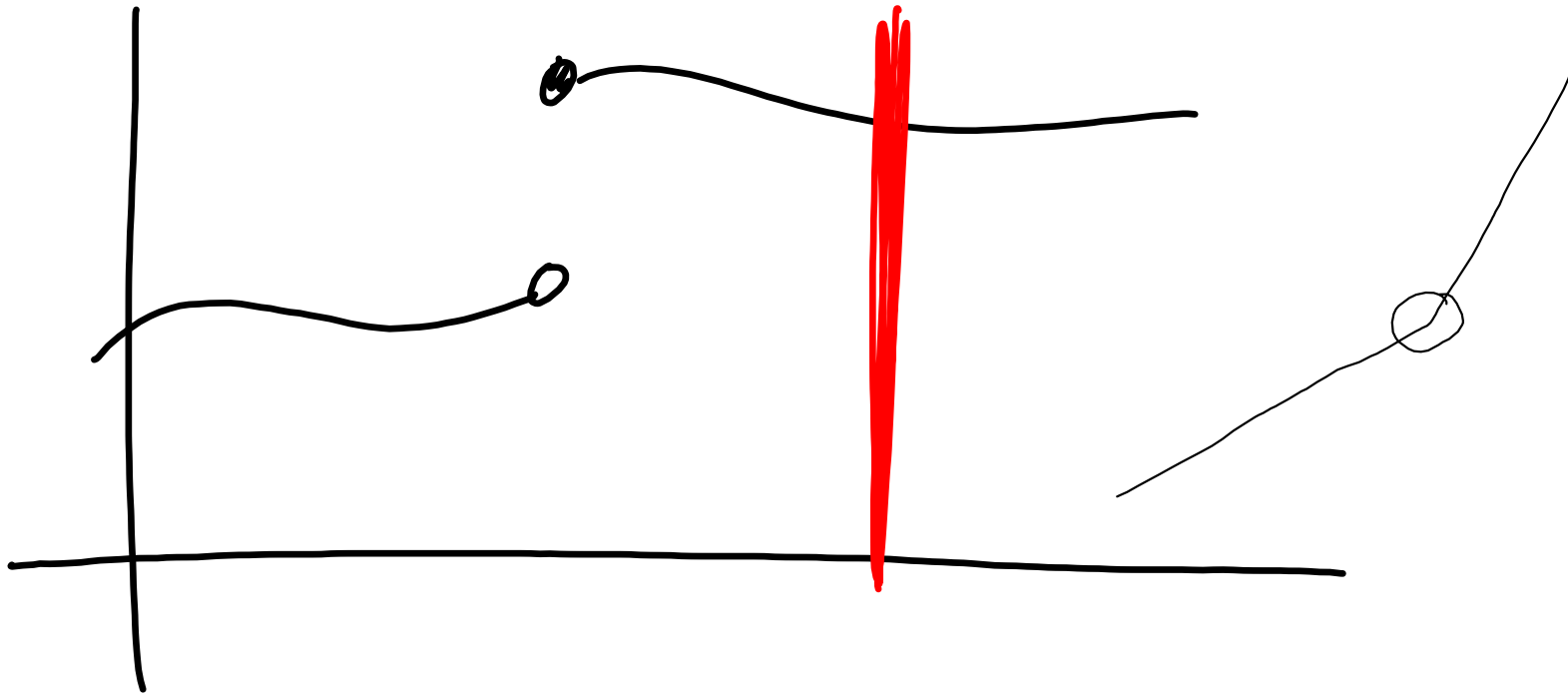




$$\text{av}(f) = \frac{\int_0^1 x^2 dx}{1-0} = \frac{\left[\frac{x^3}{3}\right]_0^1}{1-0} = \frac{\frac{1}{3}}{1} = \frac{1}{3}$$

$$f(x) = x^2, \quad [0, 1]$$





$$-\int_b^x = \int_x^b = \int_a^b - \int_a^x$$

