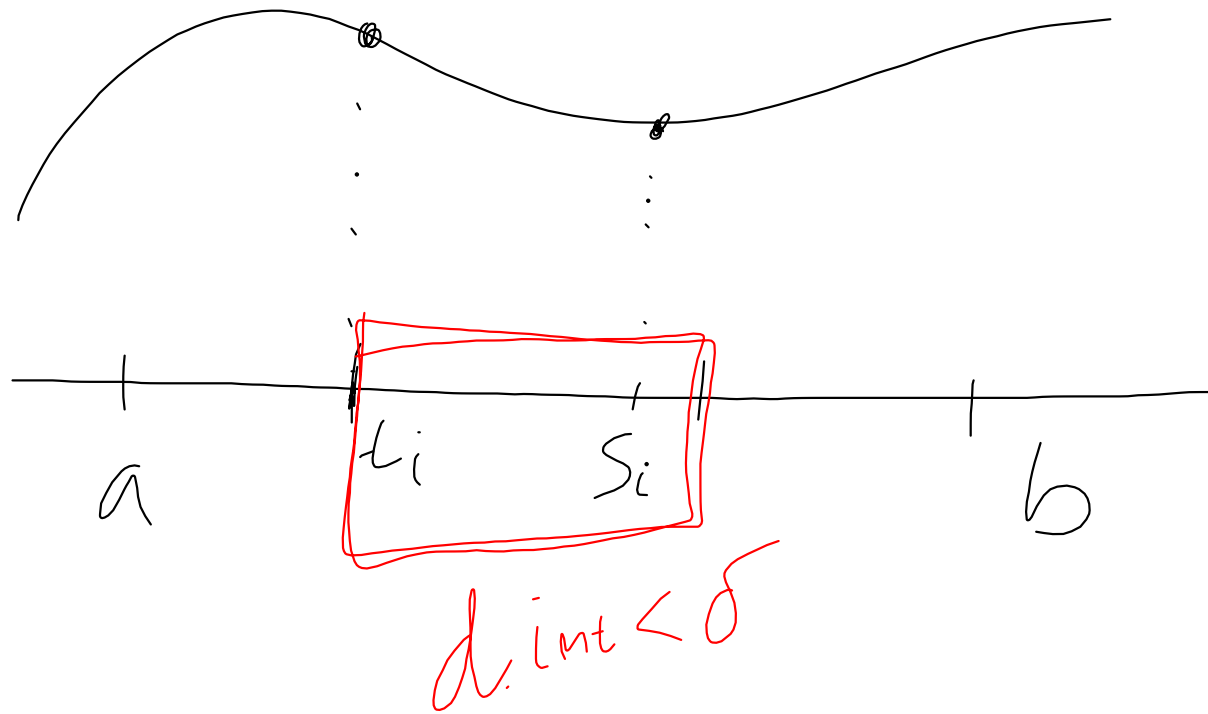
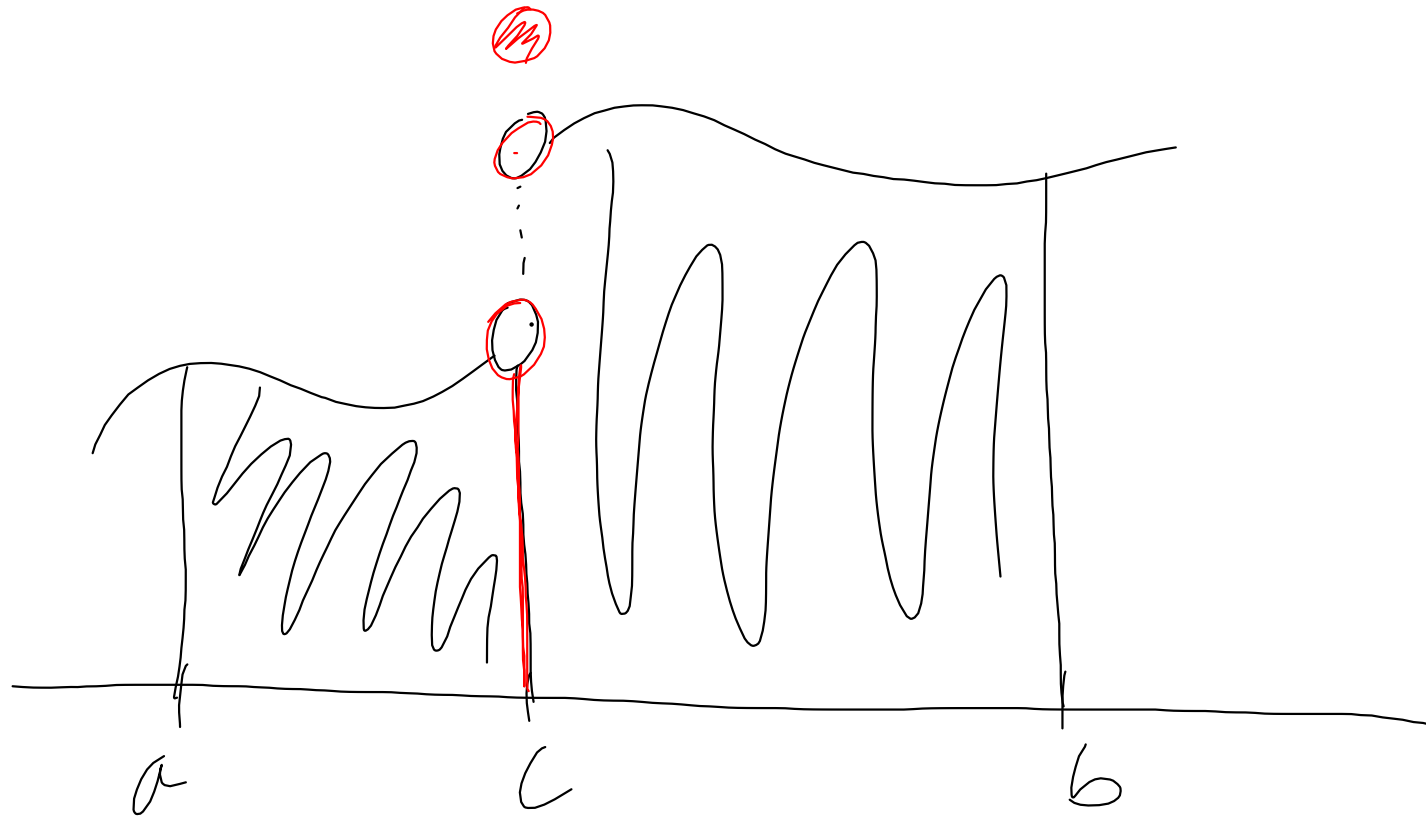
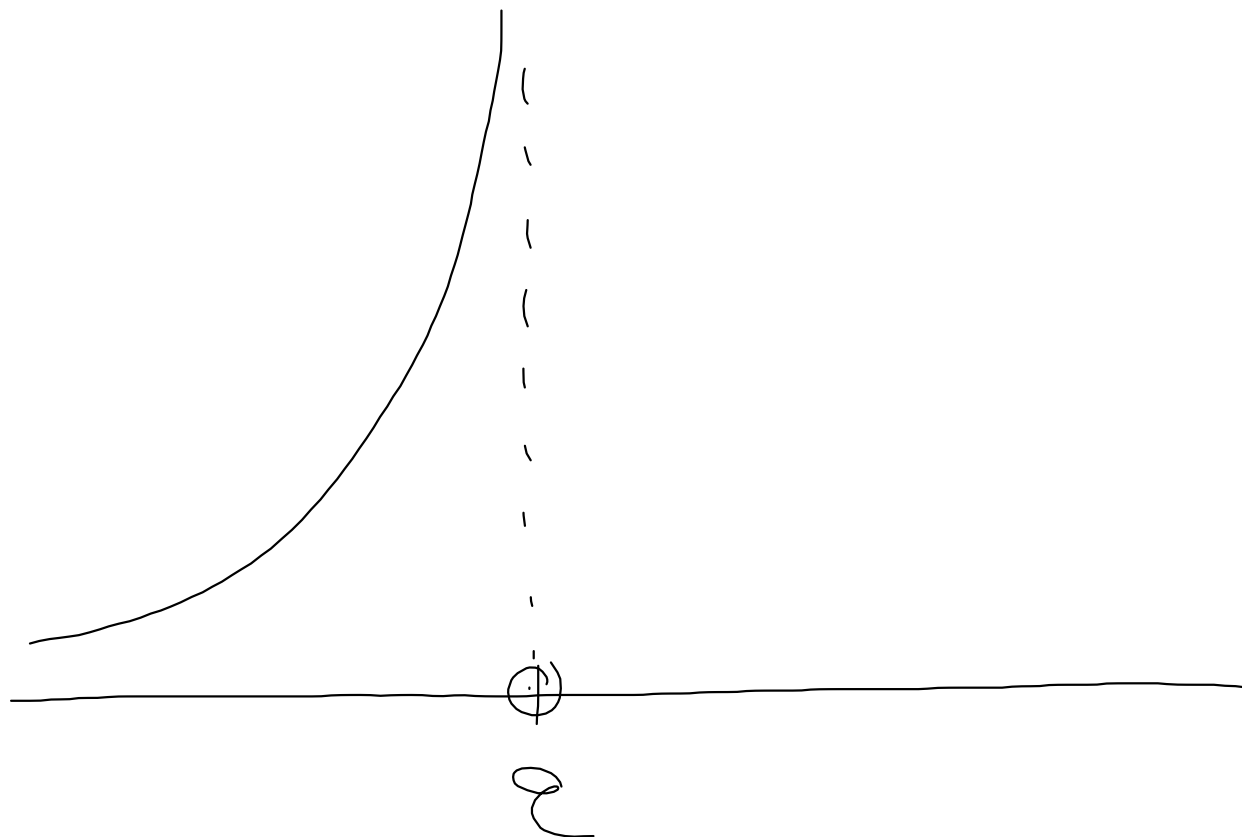


$$|S - s| < \delta \cdot \left(\frac{f(b) - f(a)}{f(b) - f(a)} \right) = \frac{\epsilon}{\cancel{f(b) - f(a)}} \cdot \text{den}$$

$$\delta < \epsilon$$

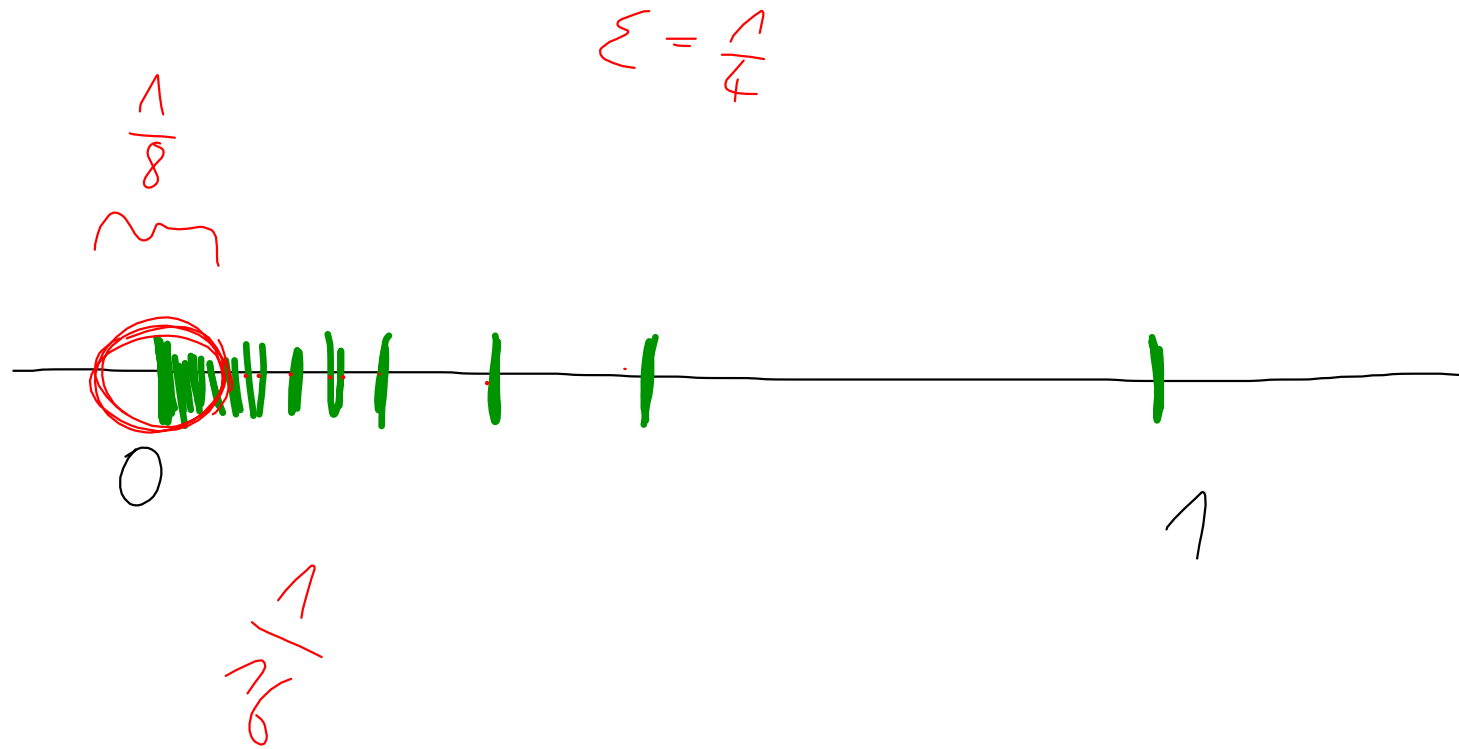


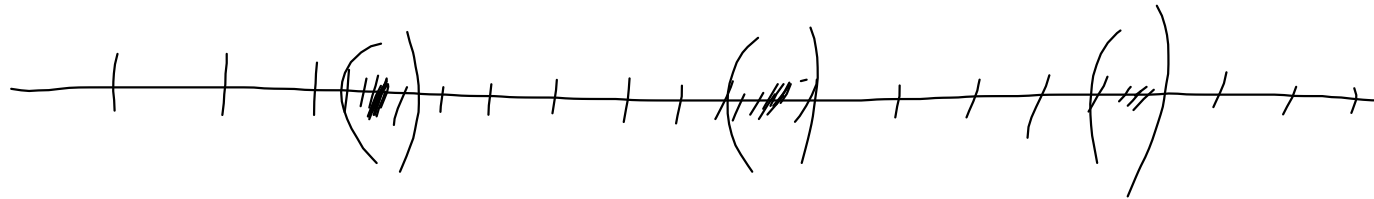




~~H~~

(1) (A) (1) (1) (1)

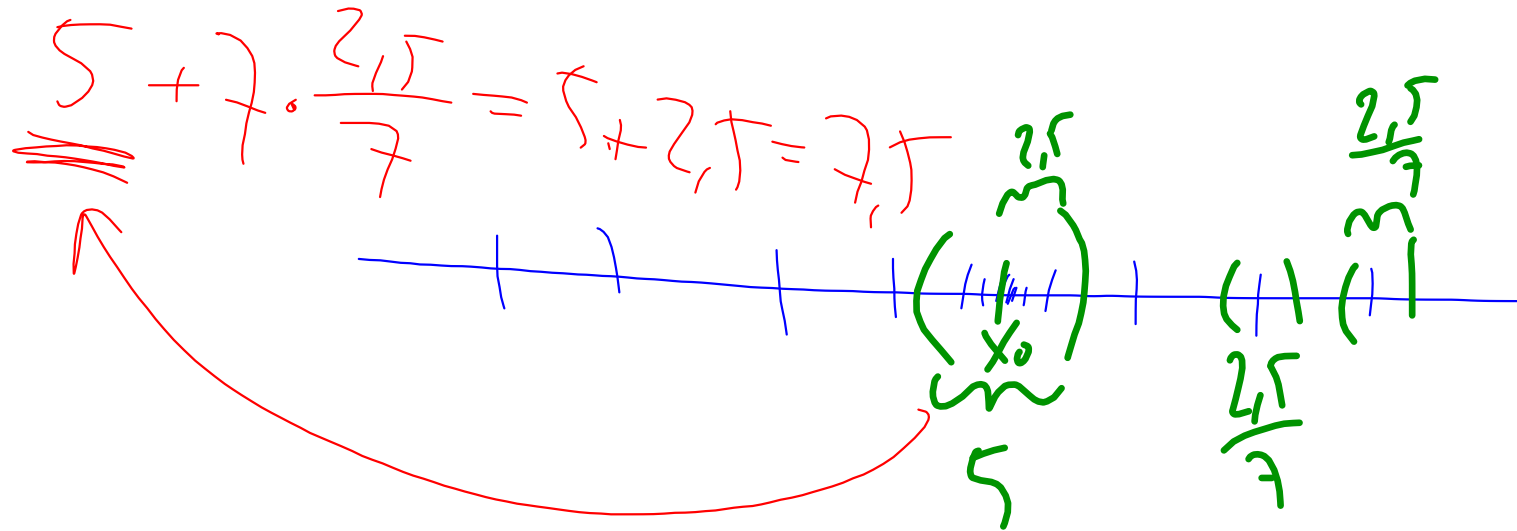


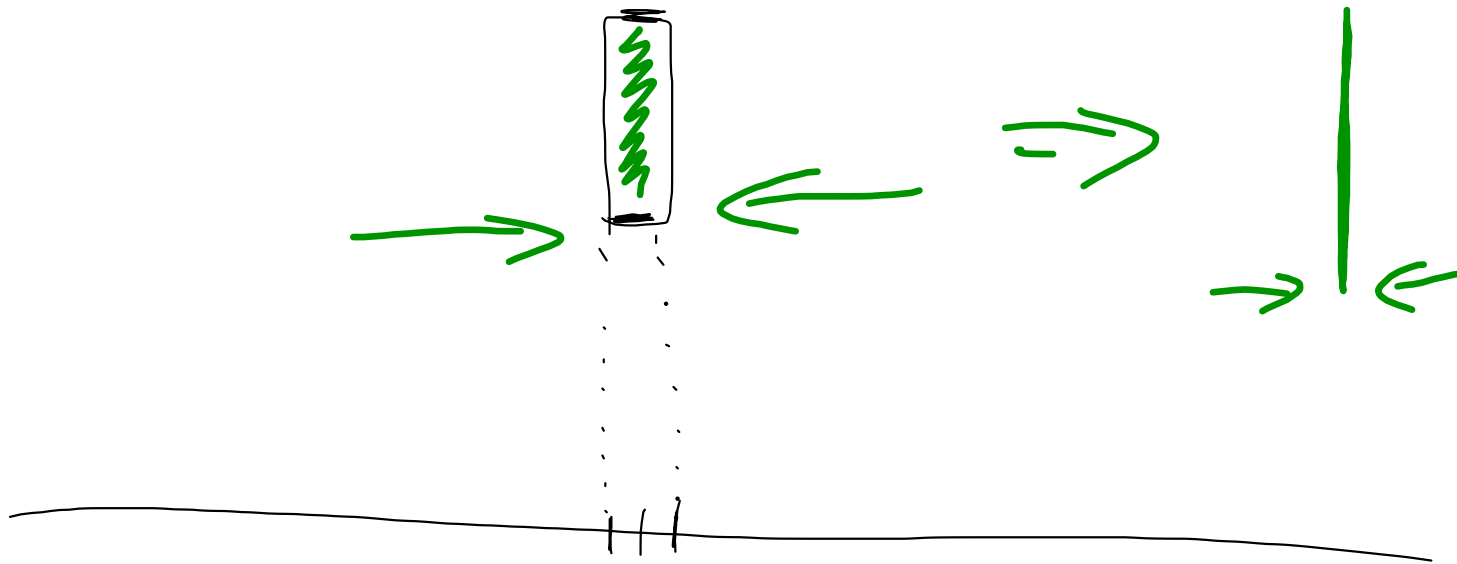


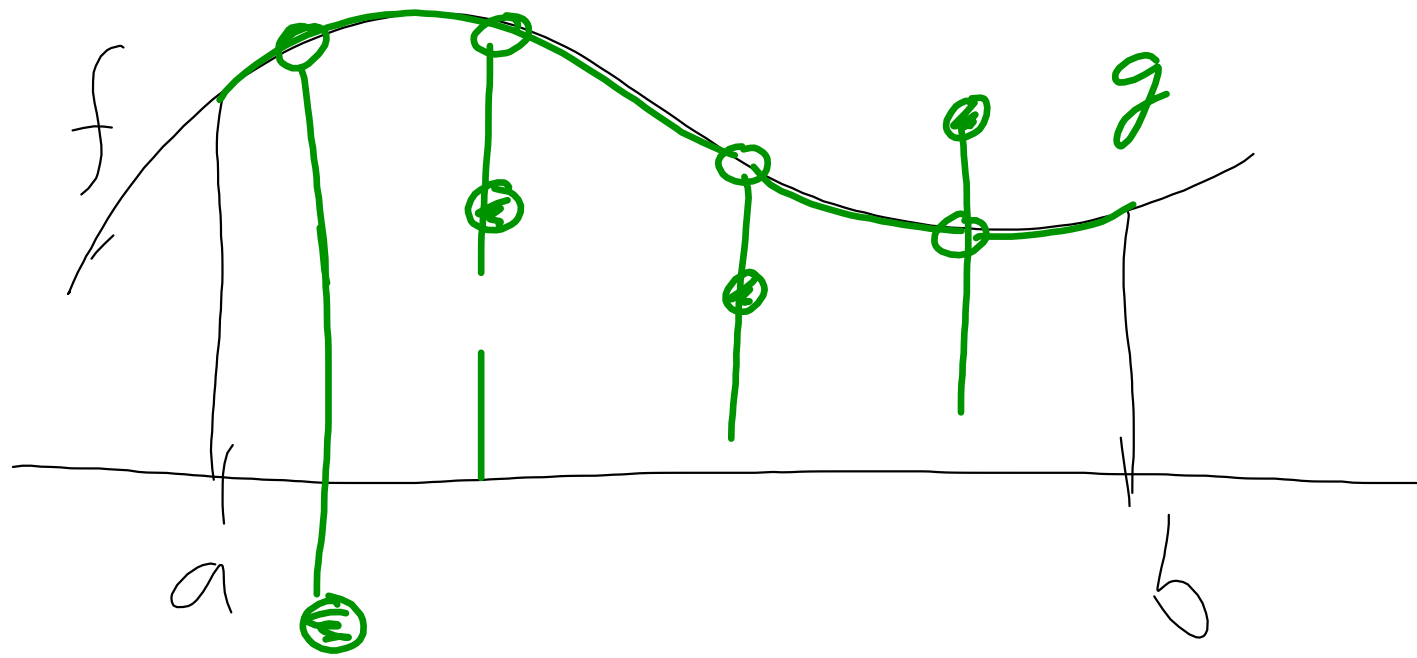
$$\Sigma = 10$$

5

2,5



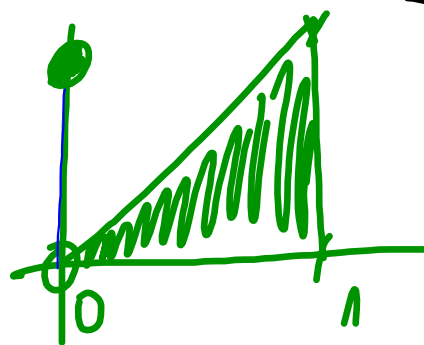




$$f(x) \equiv 1, x \in [0, 1]$$

$$g(x) := \begin{cases} 1, & x = 0 \\ x, & x \in (0, 1] \end{cases}$$

$$\int_0^1 g(x) dx = \frac{1}{2}$$



$$\int_0^1 f(x) dx = 1$$

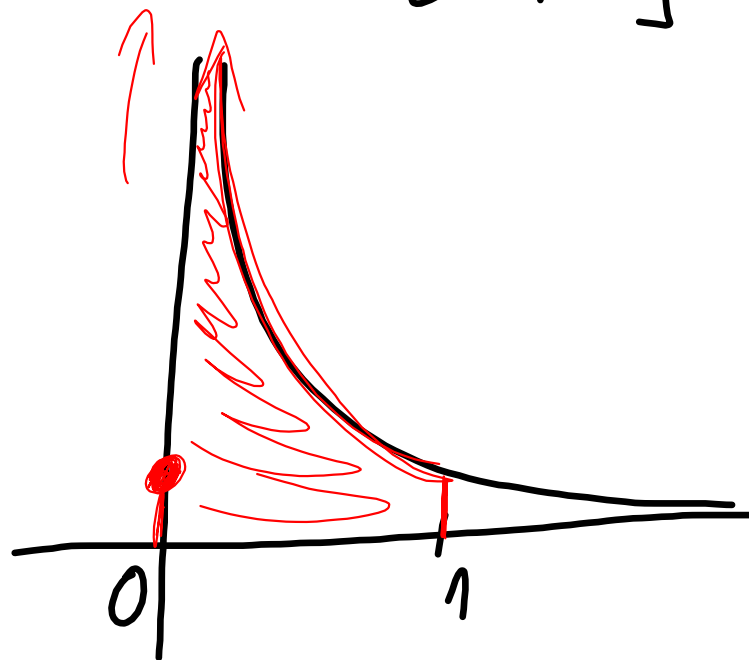
A graph of the function $f(x)$ on the interval $[0, 1]$. The x-axis is labeled with 0 and 1. The y-axis has a tick mark at 1. The function is constant at 1. The area under the curve is shaded with diagonal lines.

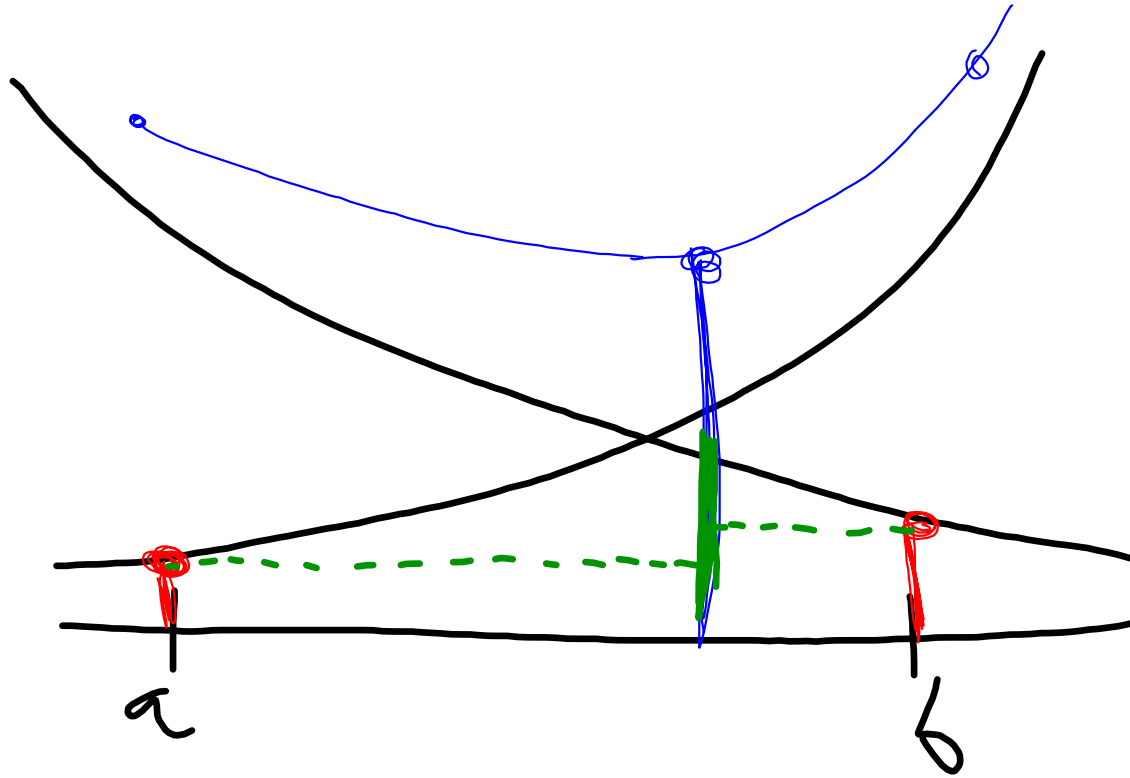
$\mathcal{N}A'nE$

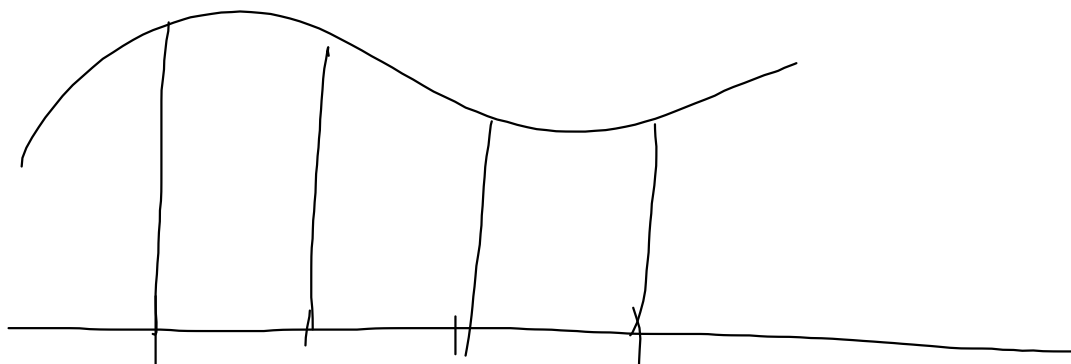
$$g(x) > 0$$

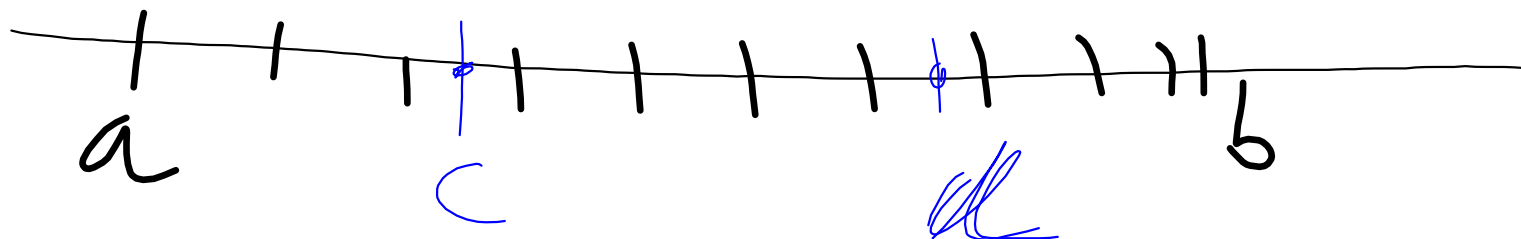
$$\forall x \in [0, 1]$$

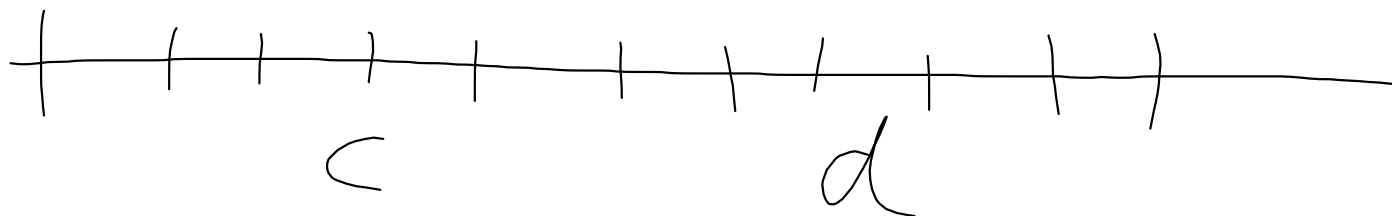
$$\int_0^1 \frac{f}{g} dx = \int_0^1 \frac{1}{x} dx$$



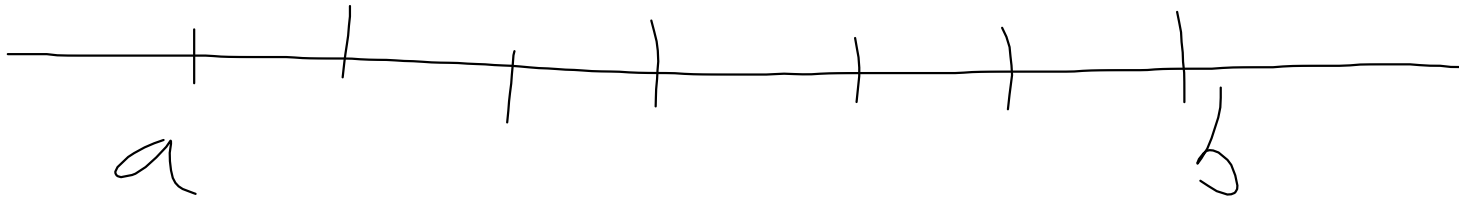


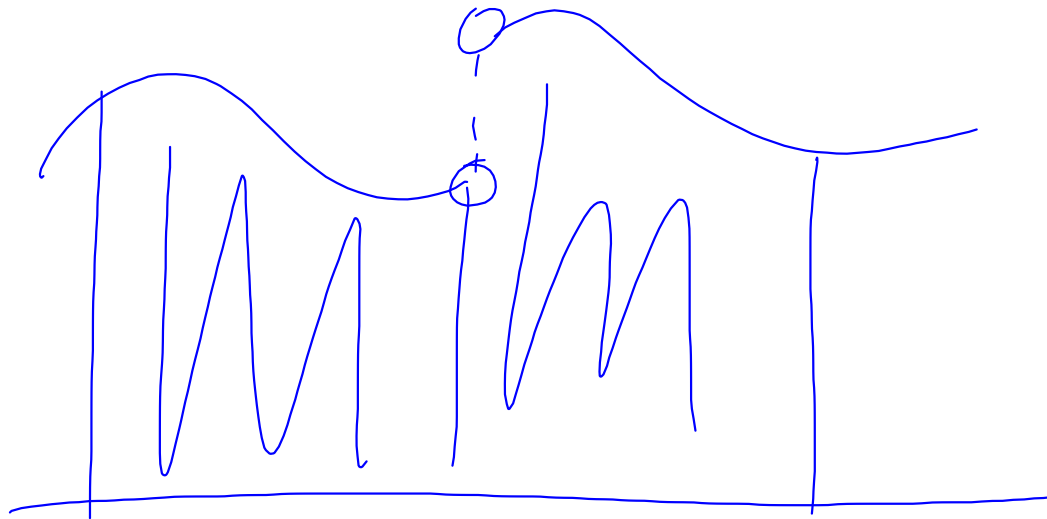


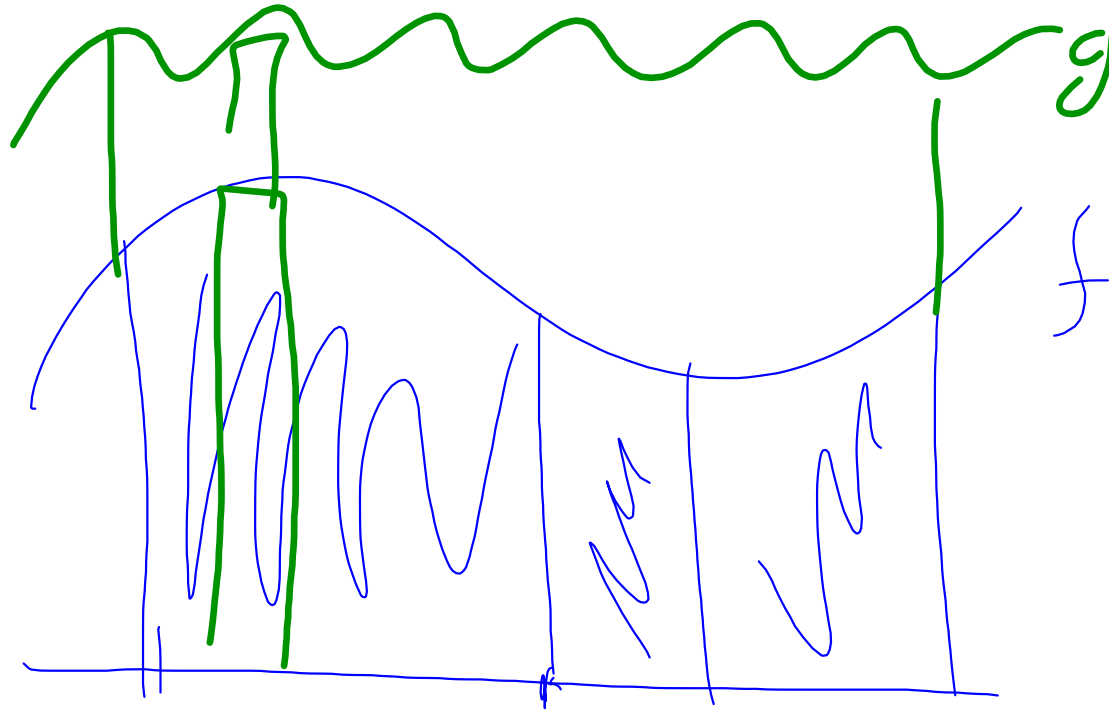


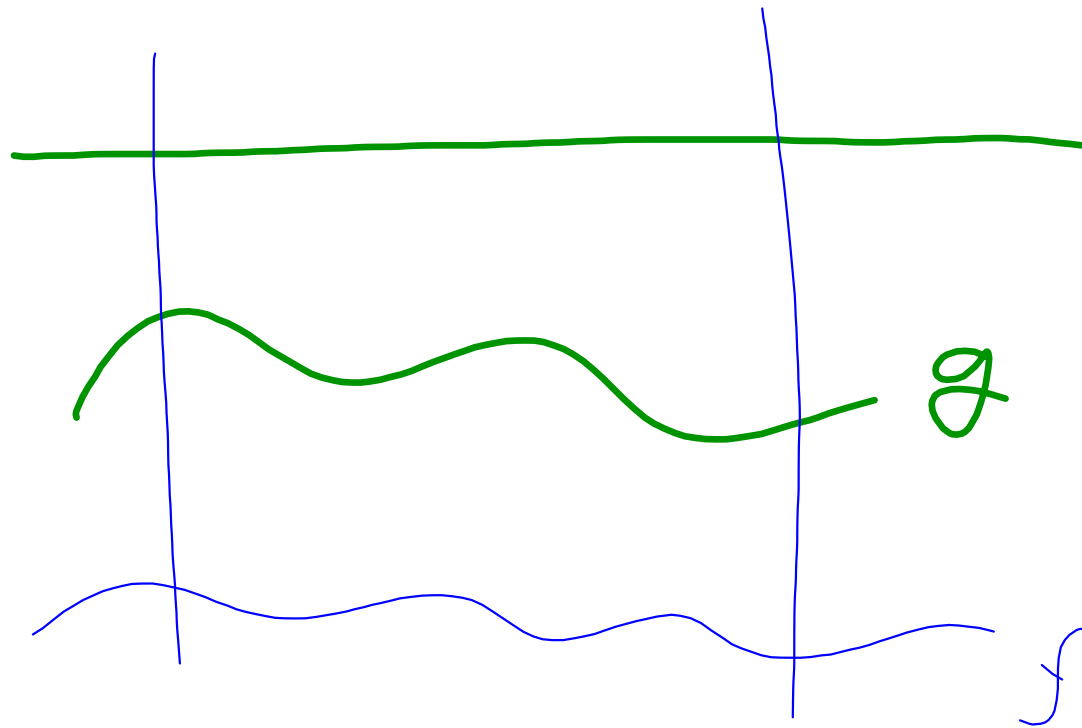


$$D = \{ a = x_0, x_1, \dots, x_{m-1}, b = x_m \}$$









$$\begin{array}{ccc} |5 + (-3)| & \leq & |5| + |-3| \\ || & & || \\ 2 & \leq & 8 \end{array}$$