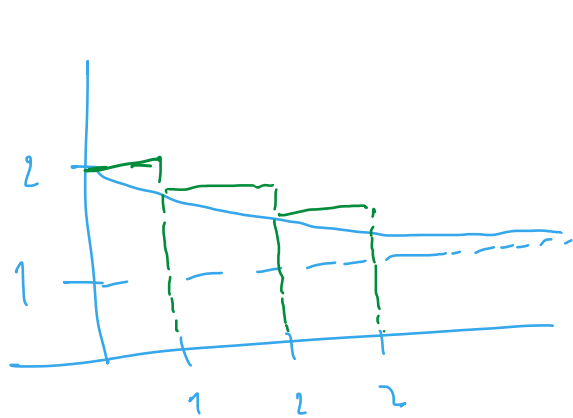


13.03

onsdag 21 december 2022

19:25

$$\int_0^3 (1 + e^{-x^2}) dx \leq 6$$



$$\begin{cases} f(x) = 1 + e^{-x^2} \\ f(0) = 2 \\ f(1) = 1 + e^{-1} \\ f(2) = 1 + e^{-4} \end{cases}$$

$$\sum_{n=0}^2 f(n) = 2 + (1 + e^{-1}) + (1 + e^{-4}) = 4 + \frac{1}{e} + \frac{1}{e^4} = \int_0^3 (1 + e^{-x^2}) dx \leq 6$$