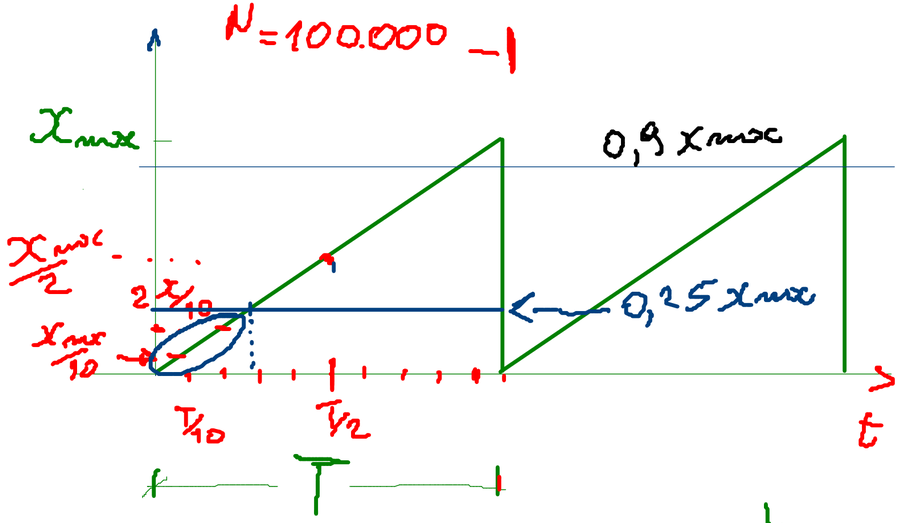
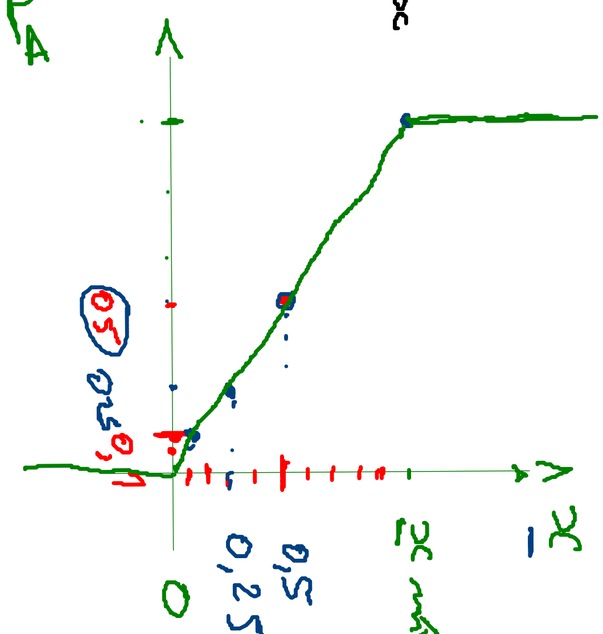


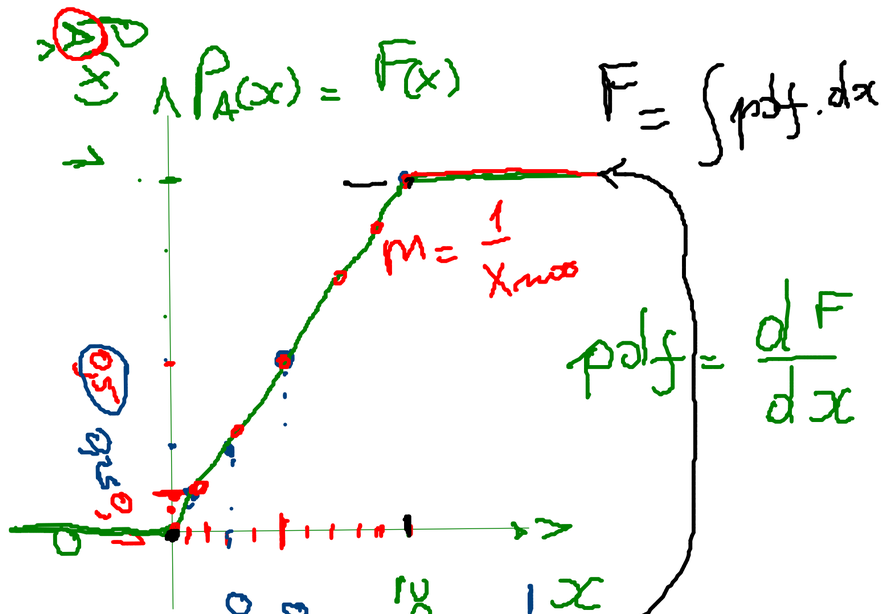
$t_1 = T/10 \rightarrow \frac{T/10}{T} = \frac{1}{10}$

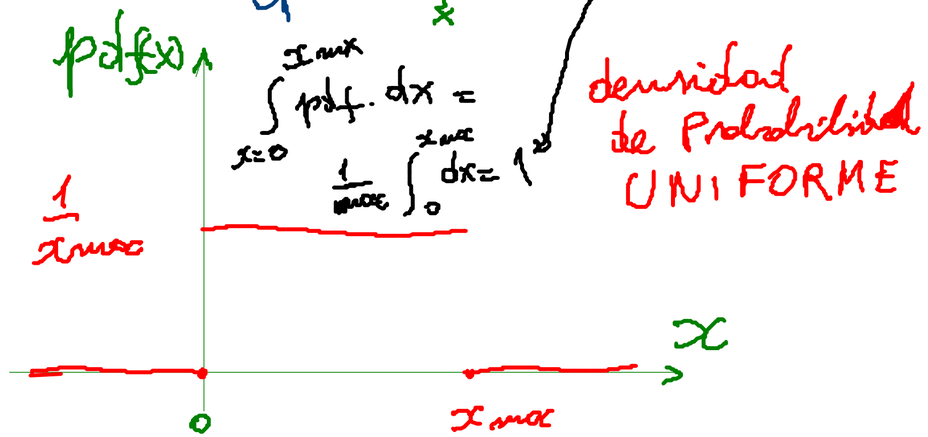


$P(x<x_1)$

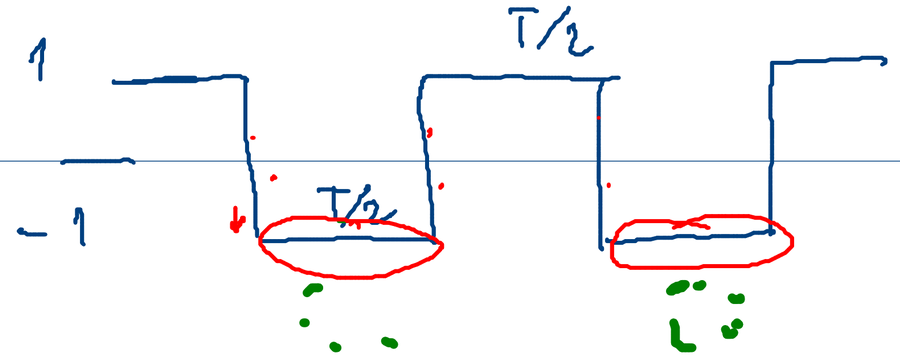
F

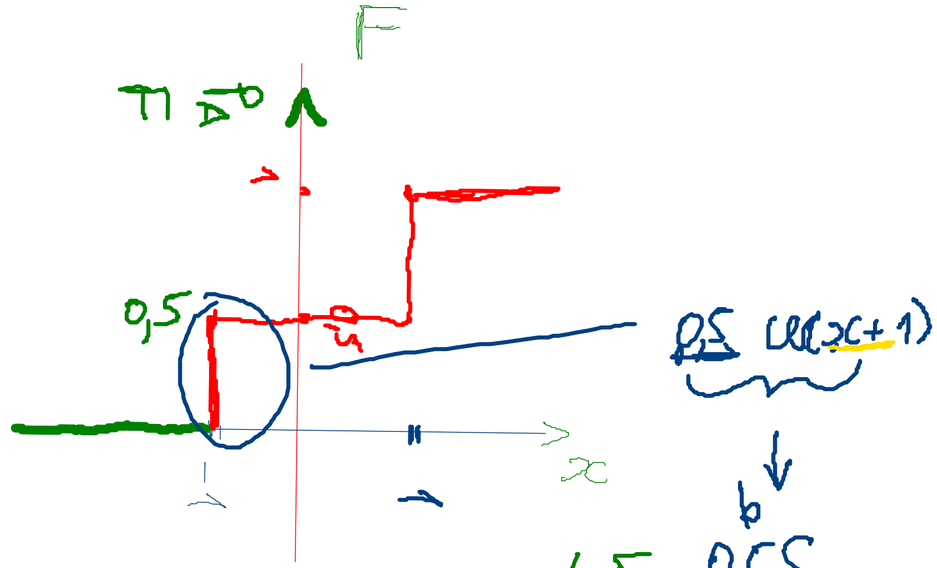
P_A

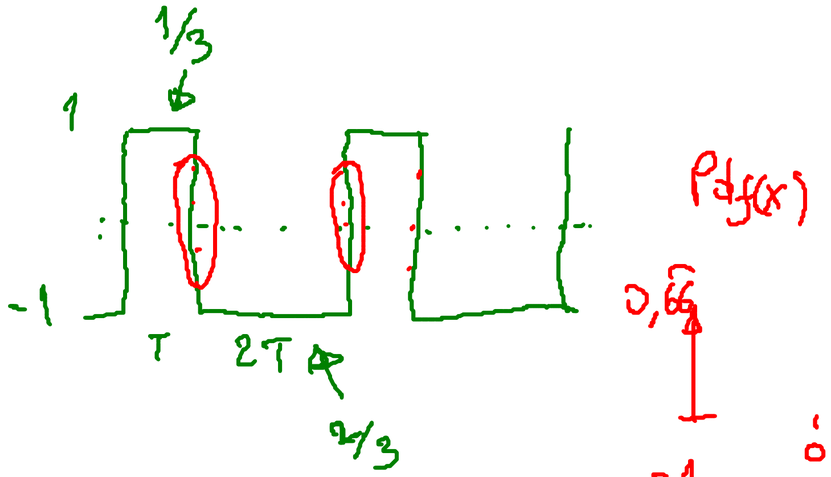


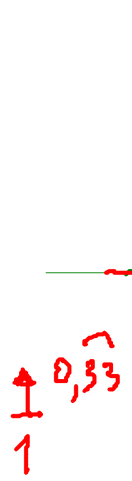


N = 100000

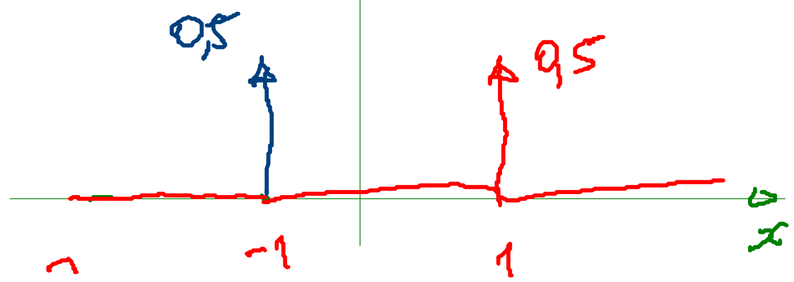








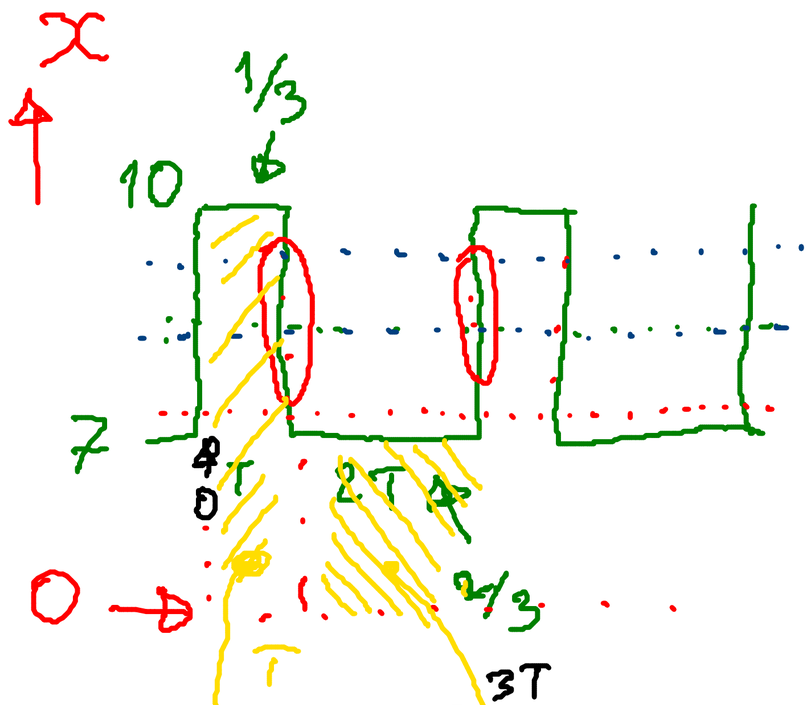
$$pdf = \frac{dF}{dx}$$



$$\int_{0^-}^{0^+} \delta(t) f(t)\,dt$$

$$1 \cdot f(0)$$

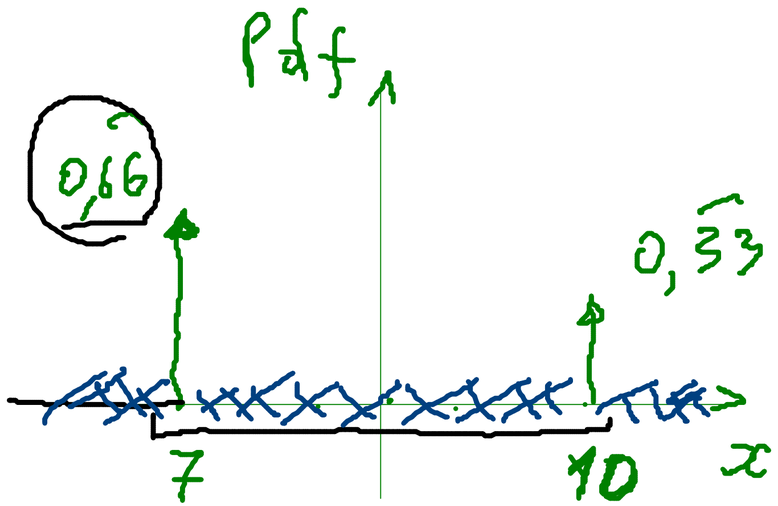
$$0{,}5\,1 = \int 0{,}5\,\delta(t)\,dt$$

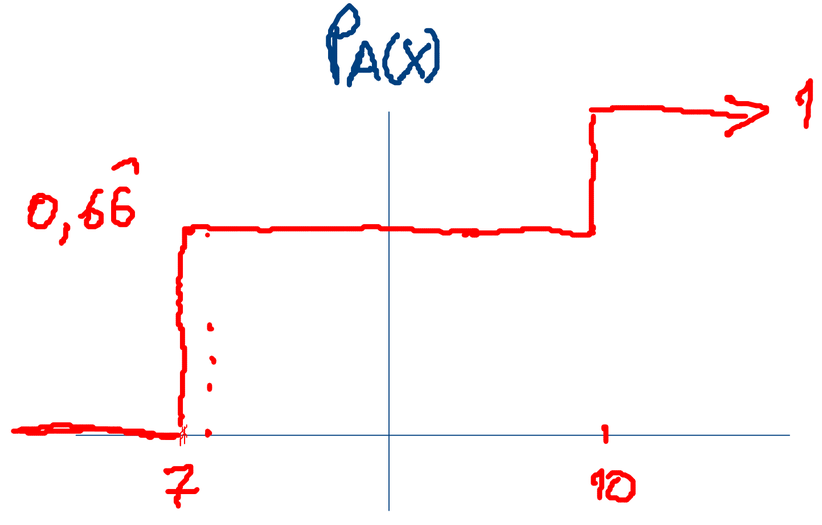


$$\langle x \rangle = \frac{1}{3T}\int_0^{3T} x.dt$$

$$= \frac{1}{3T}\left[\int_0^{T} 10.dt + \int_T^{3T} 7.dt\right]$$

$$\langle x \rangle = \frac{1}{3T}\left[10T + 7.2T\right] = \frac{24}{3T}T = 8$$





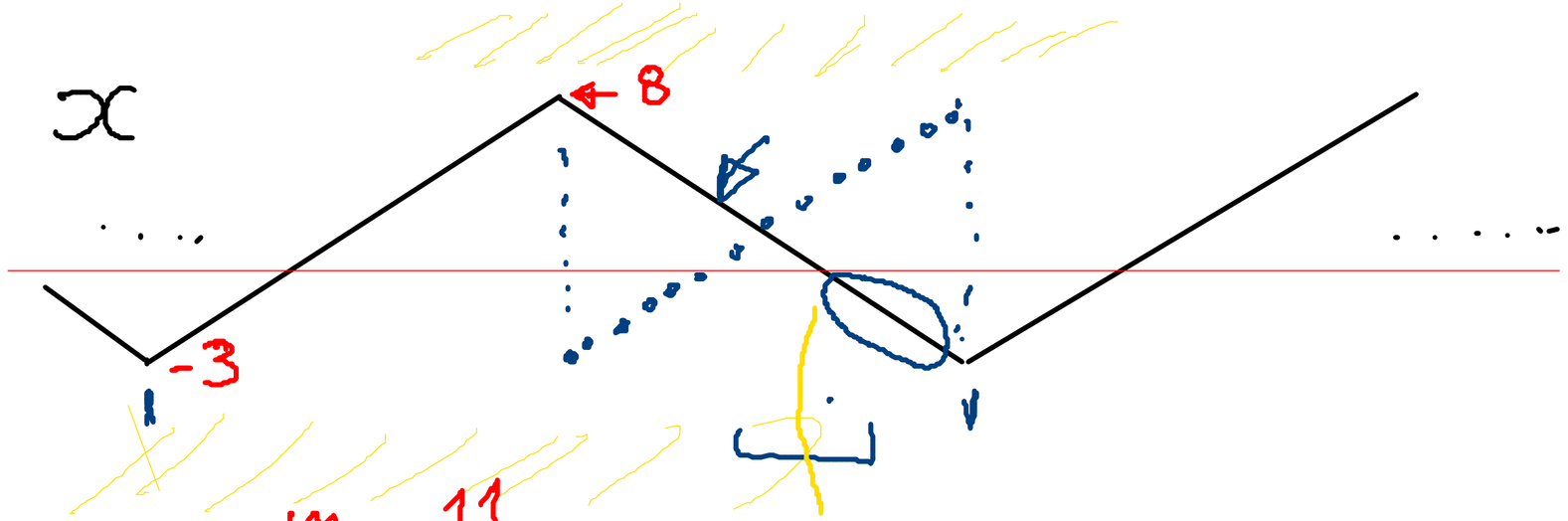
$$\bar{X} = \int_{7^-}^{10^+} 1.pdf.x.dx$$

$$= 0,66\int_{7^-}^{7^+} \delta(x-7).7.dx + 0,33\int_{10^-}^{10^+} \delta(x-10).10.dx$$

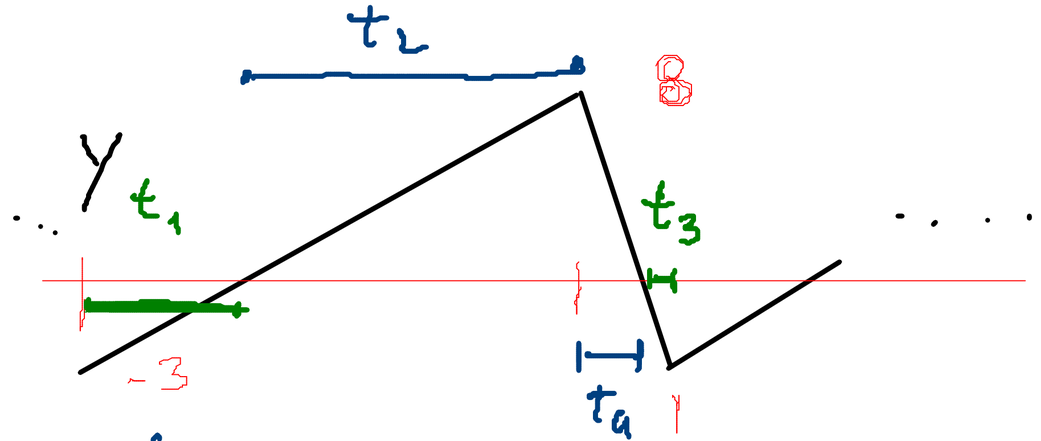
$$= \underline{0,66.7} + 0,33.10$$

$$= 4,67 + 3,33$$

$$= 8$$



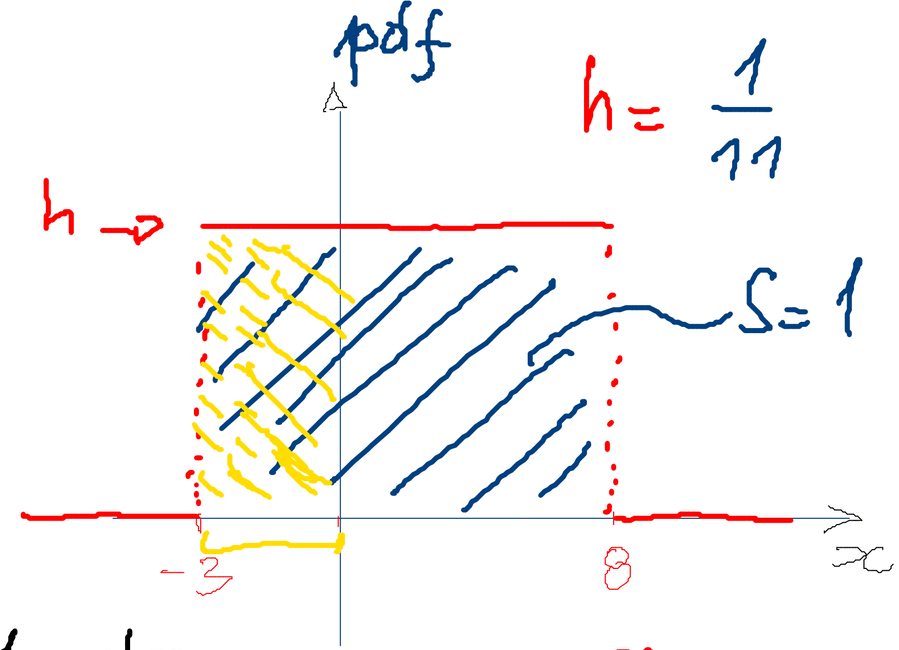
$$m = \frac{11}{T}$$



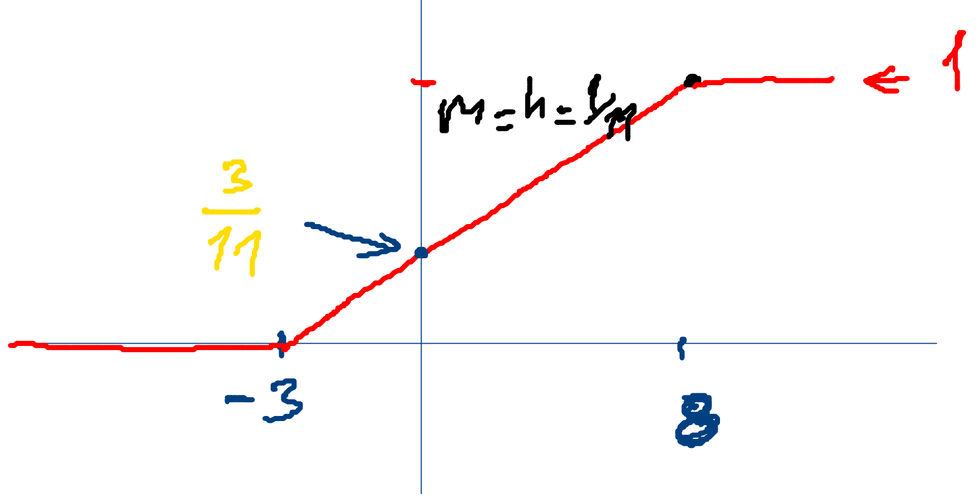
$$\frac{t_1}{t_1 + t_2}$$

$$P(x<0)$$

$$P(x<0) = \frac{t_3}{t_3 + t_4}$$



$$P_a = \int \frac{1}{11} \cdot dx \quad \longleftrightarrow \quad P_a = \int_{-\infty}^{x} pdf \cdot dx$$



x_{max}

x_{min}

T T T

Pa 1

$m = \frac{1}{6}$

0

pdf

h

$h = \frac{1}{x_{max} - x_{min}}$

x_{min} x_{max}

6

T T T

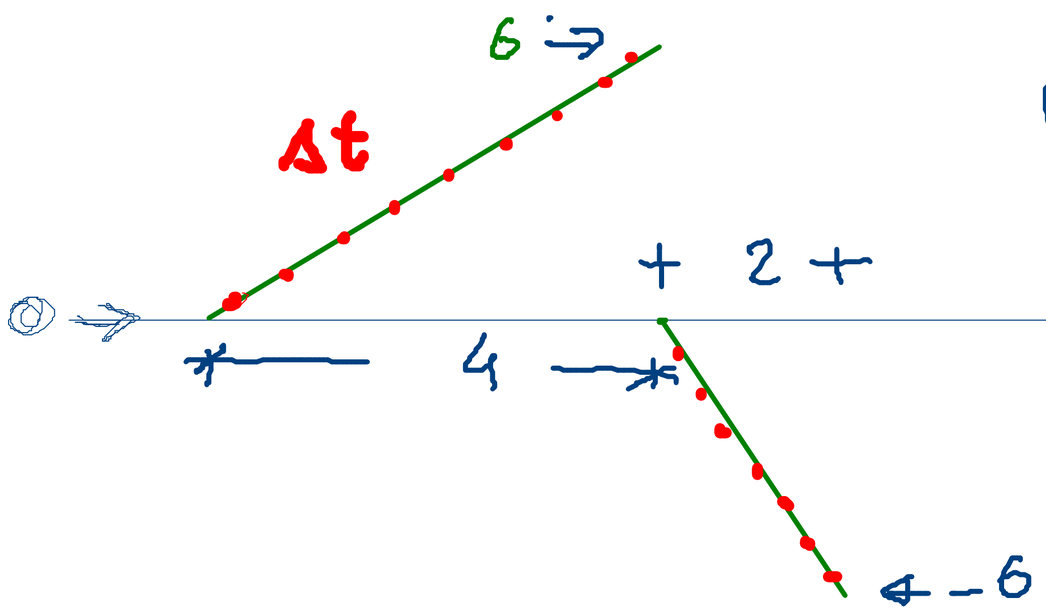
-6

Pa

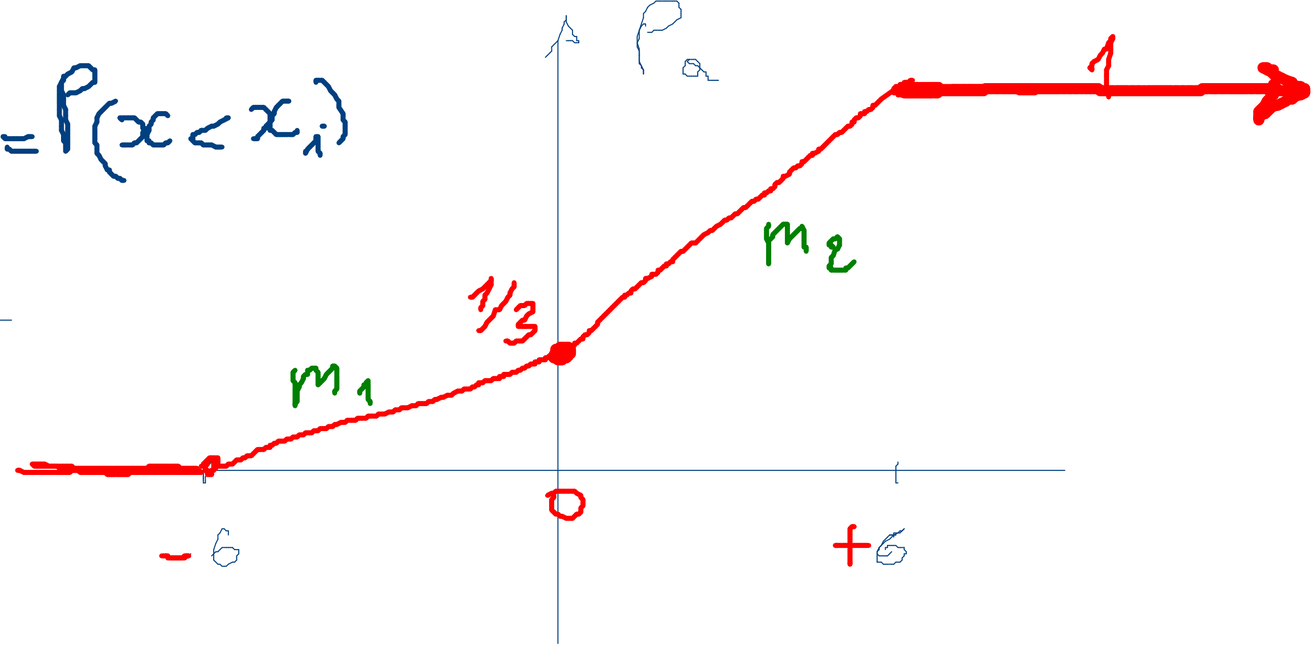
1

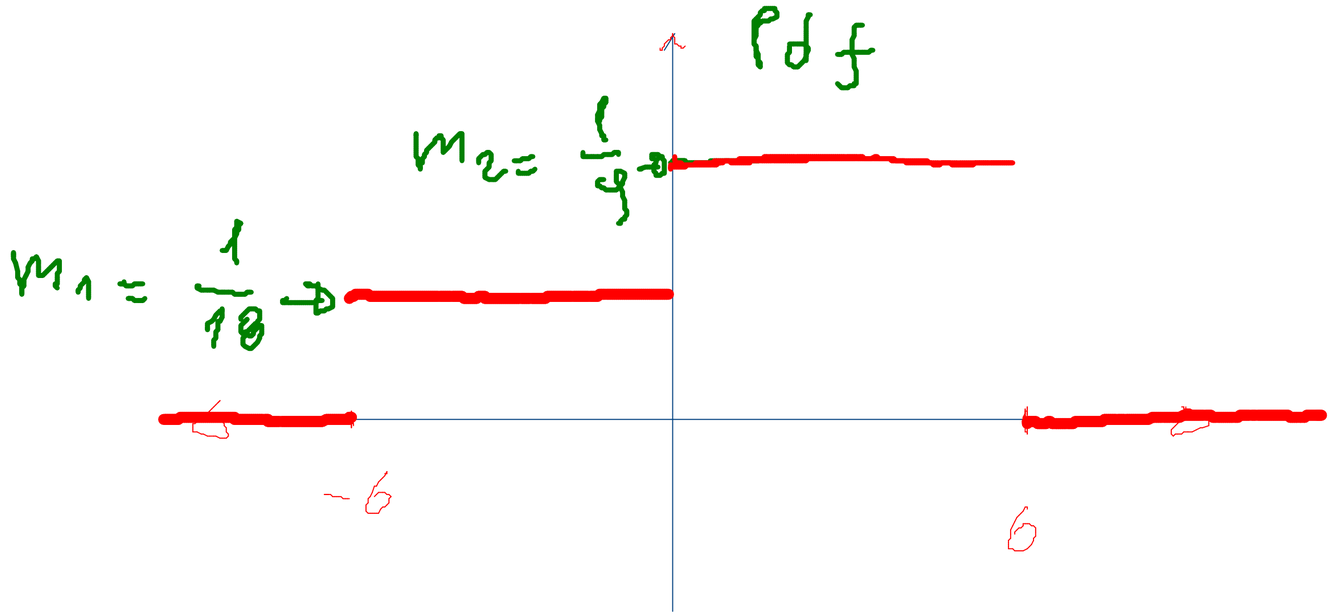
0,5

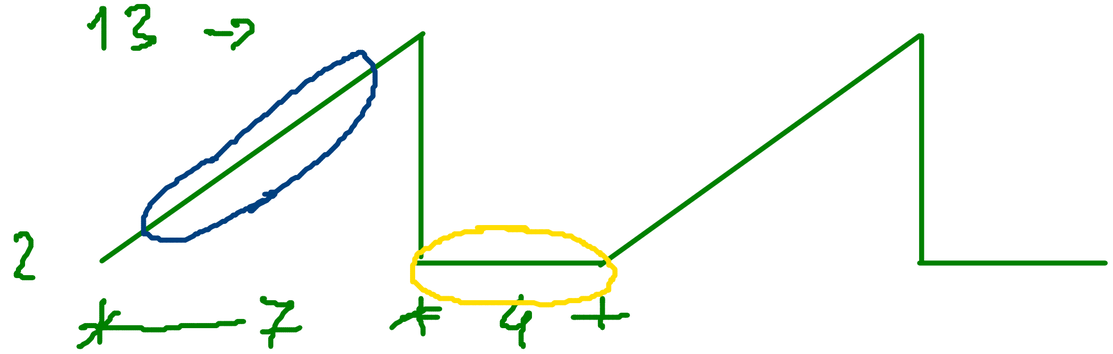
-6 0 6

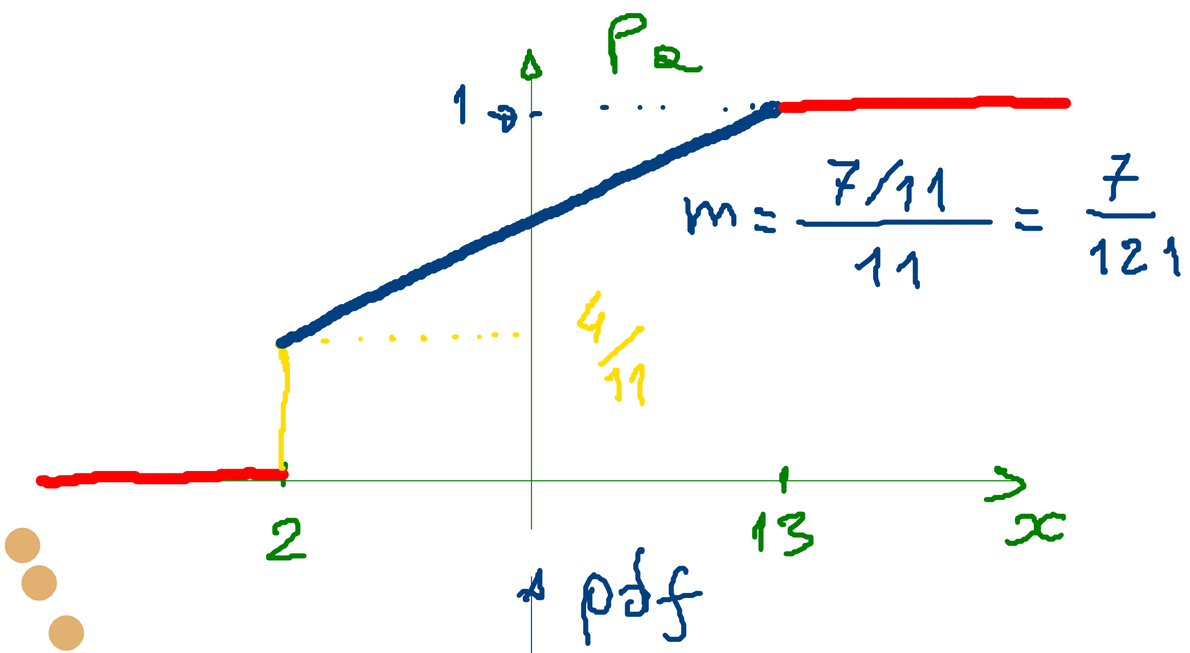


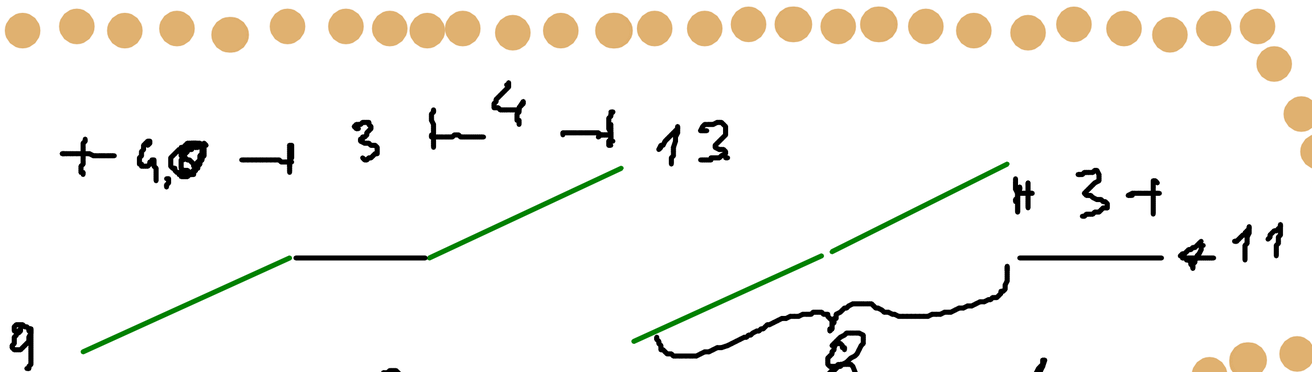
$$P_d(x_i) = P(x < x_i)$$

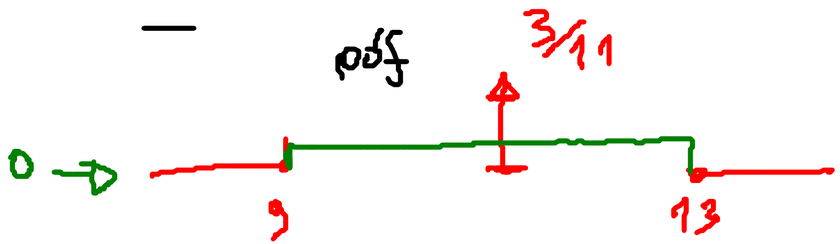


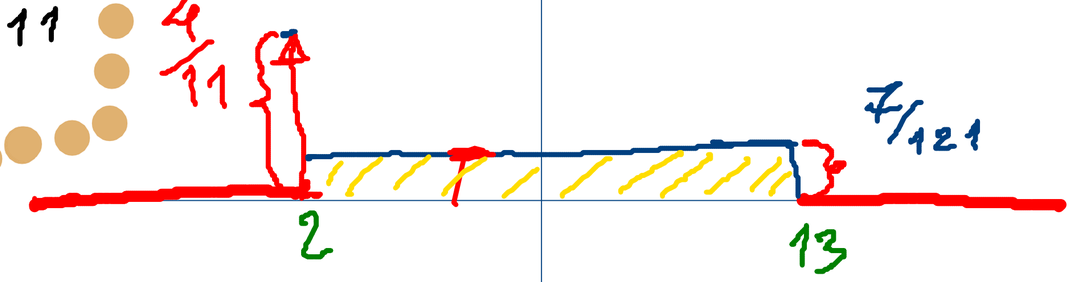












$$\frac{4}{11} + 11 \cdot \frac{7}{121} = \frac{4}{11} + \frac{7}{11} = 1$$