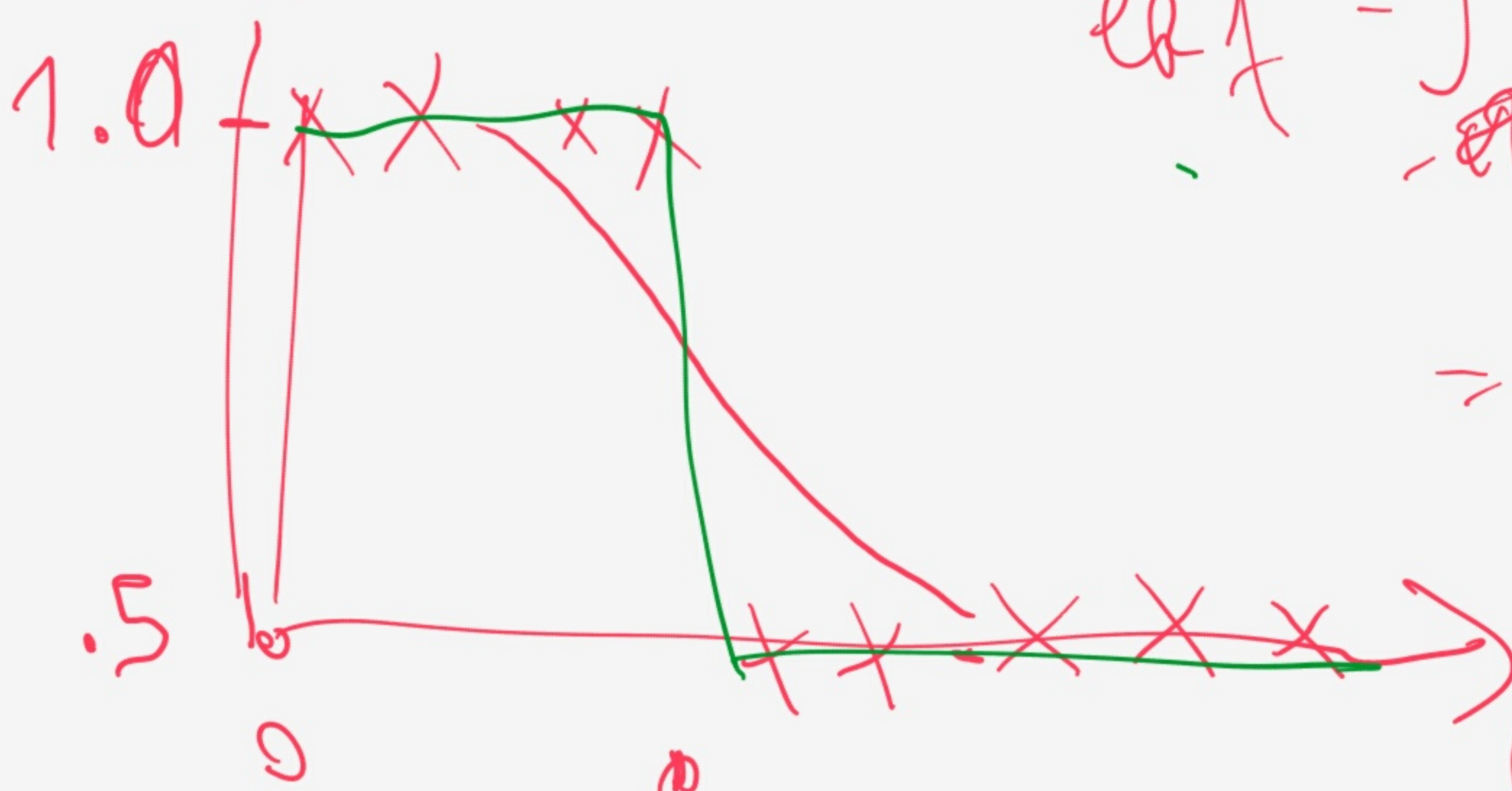
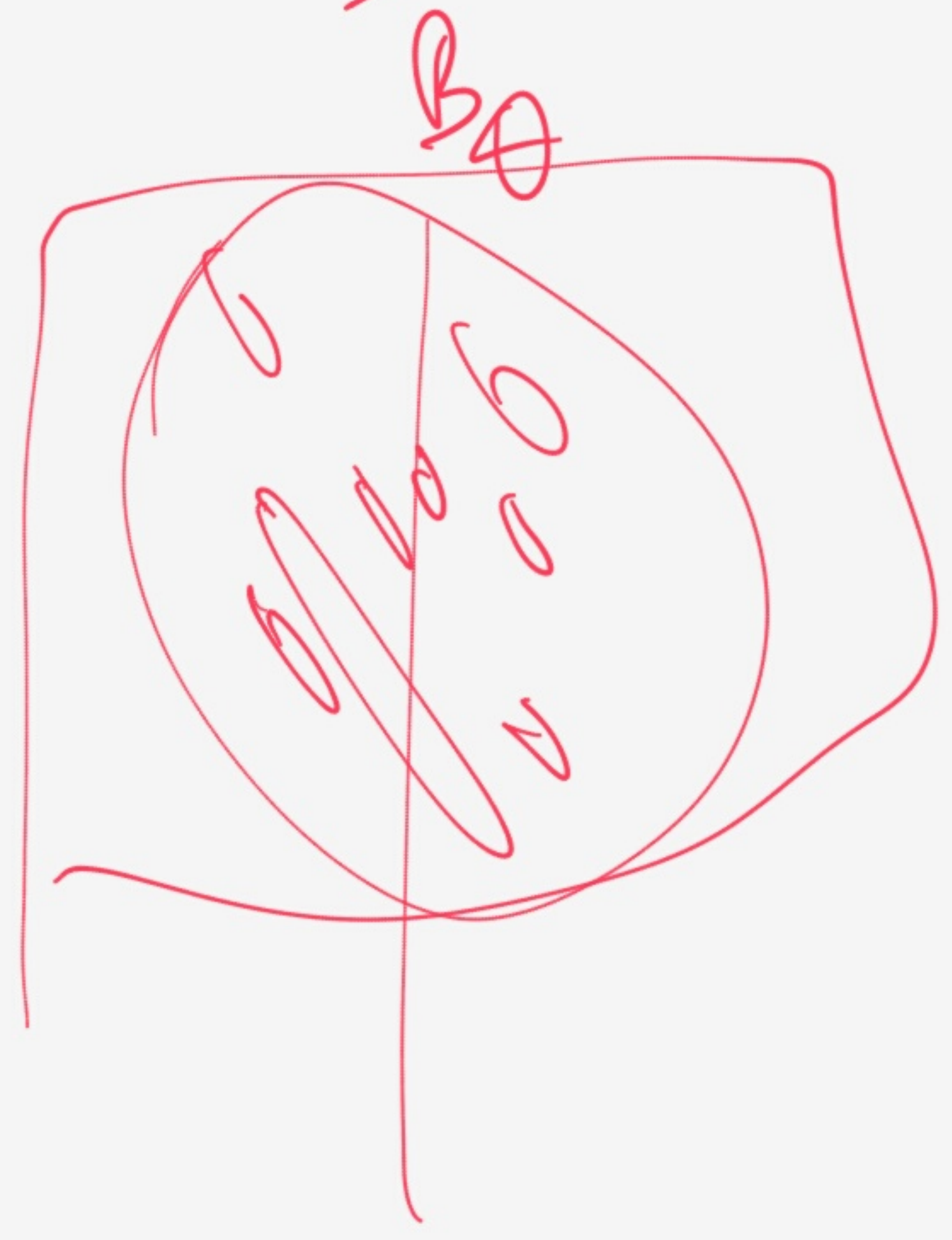


% correct  $\uparrow$

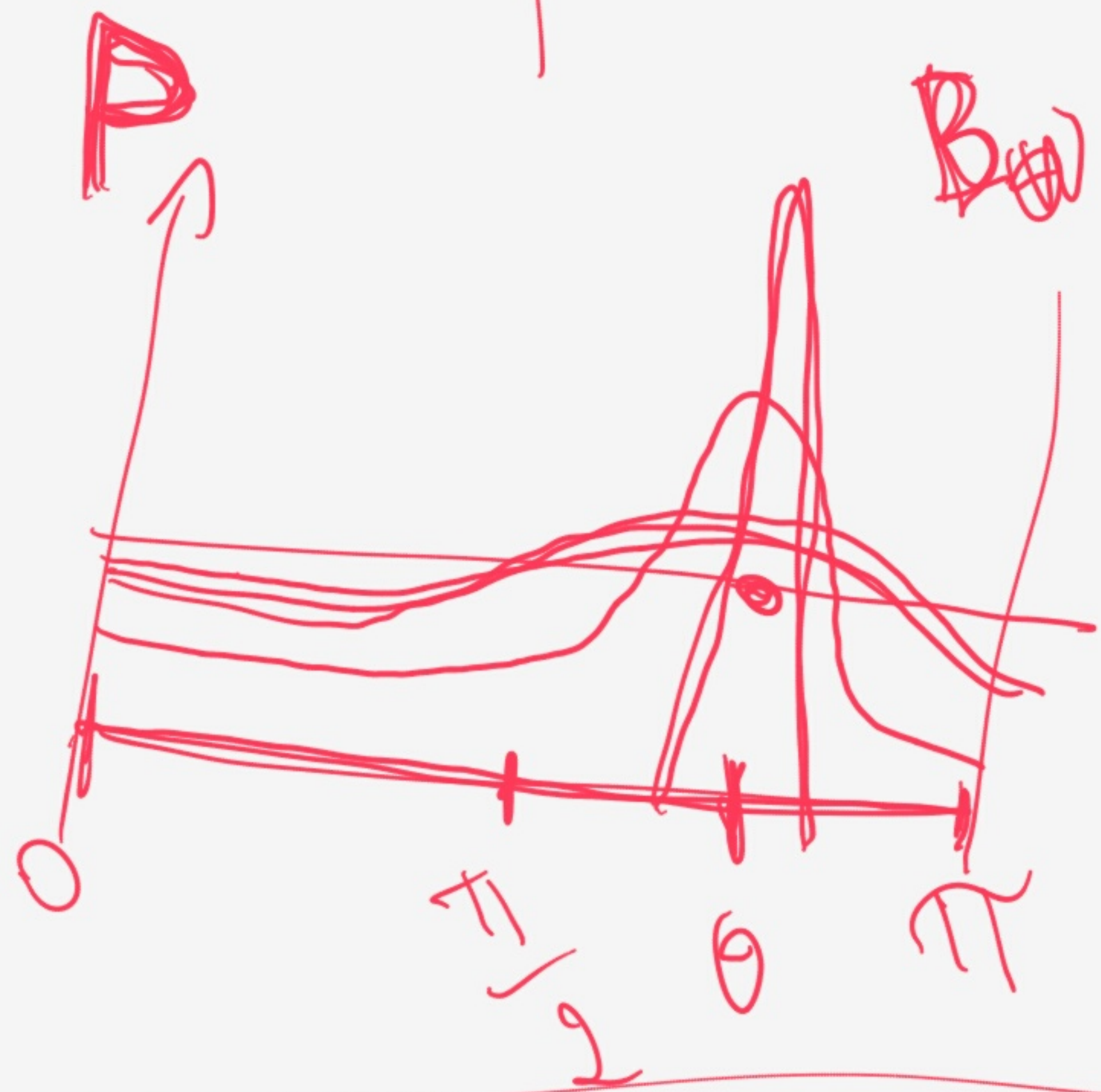
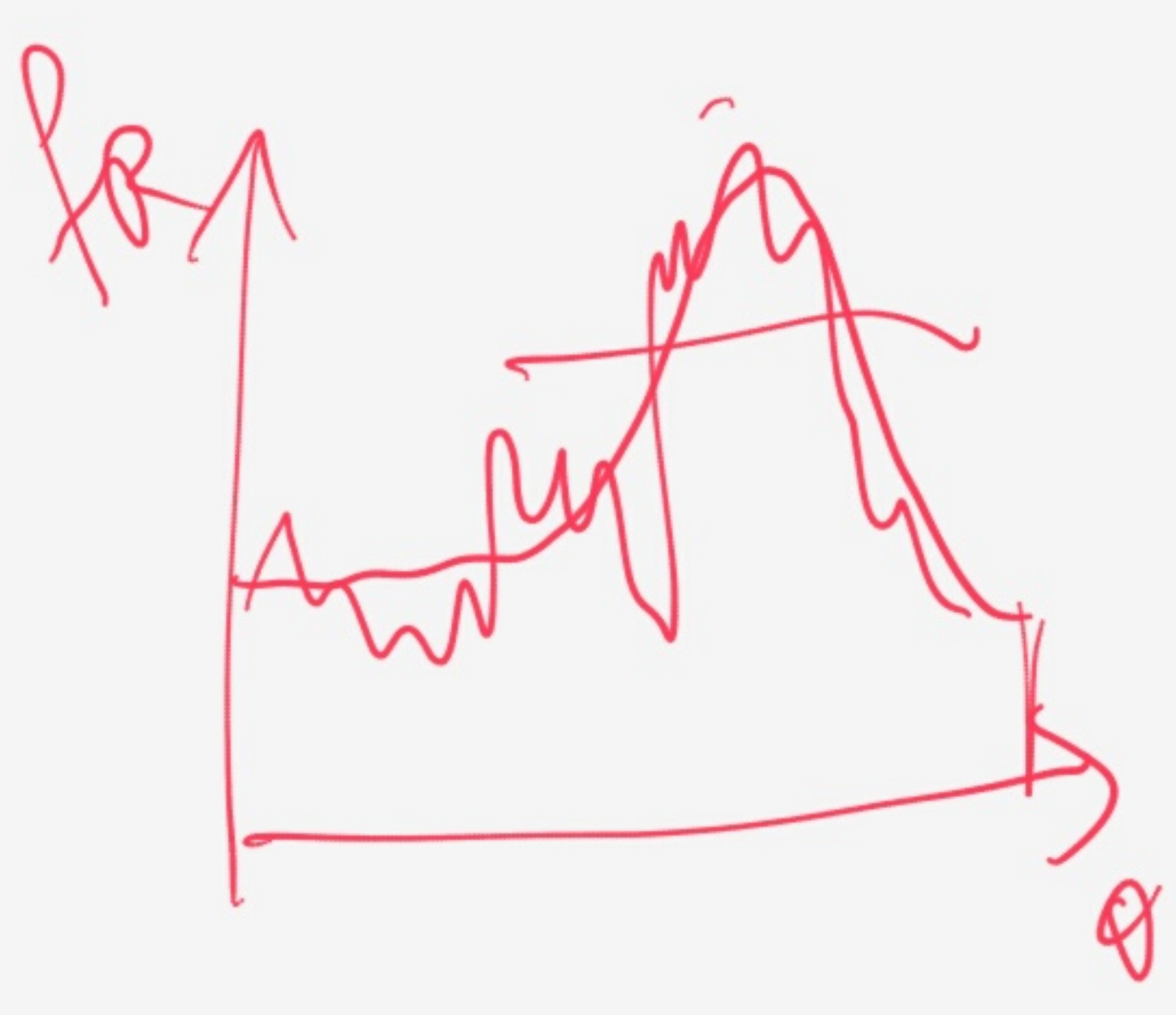
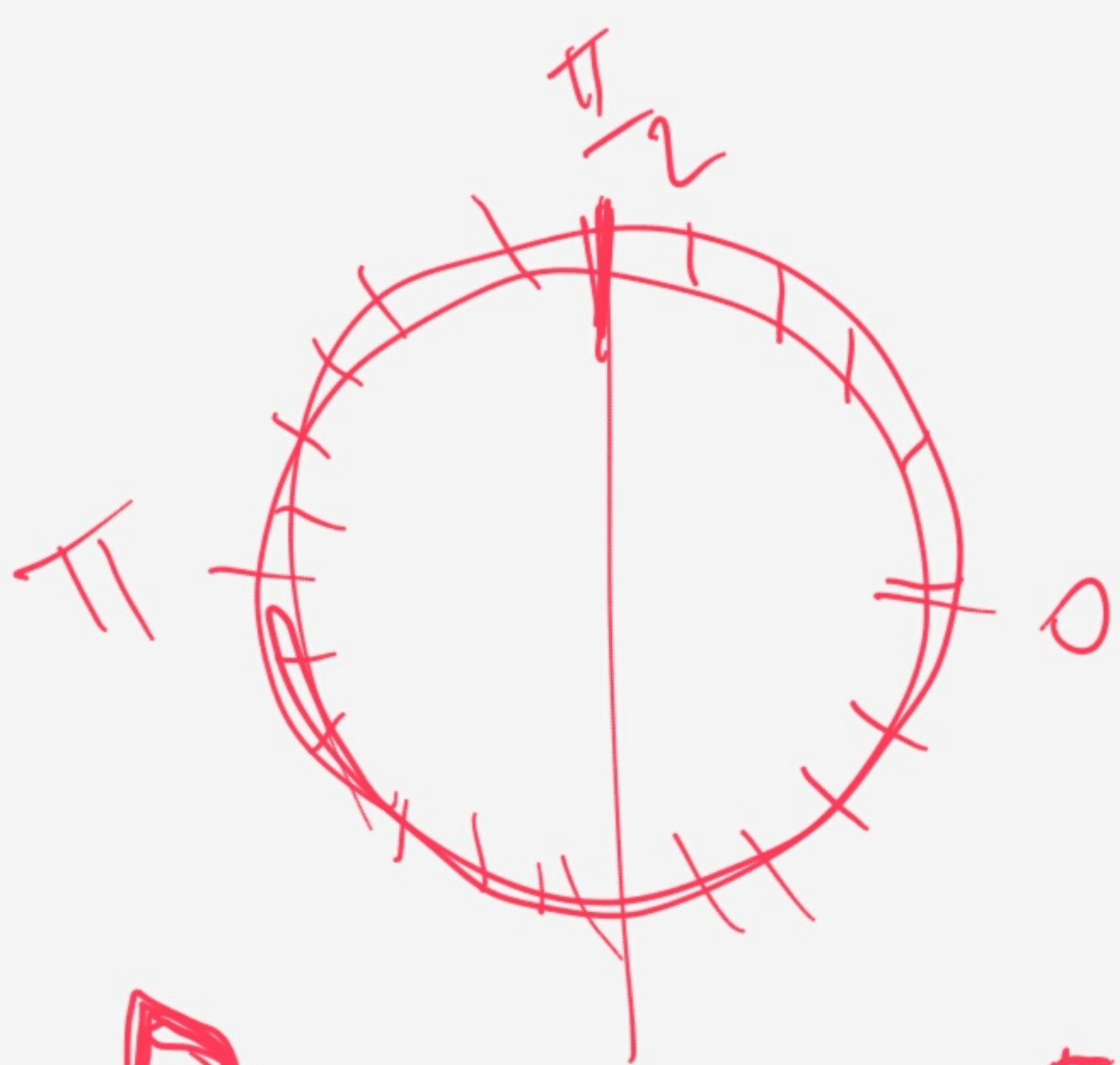


$$\begin{aligned}
 \text{eq 1} &= \int_{-\infty}^{\theta} e^{-K \cos \theta} \\
 &= \int_{-\infty}^{\theta} e^{-\frac{\theta^2}{2\sigma^2}} d\theta
 \end{aligned}$$

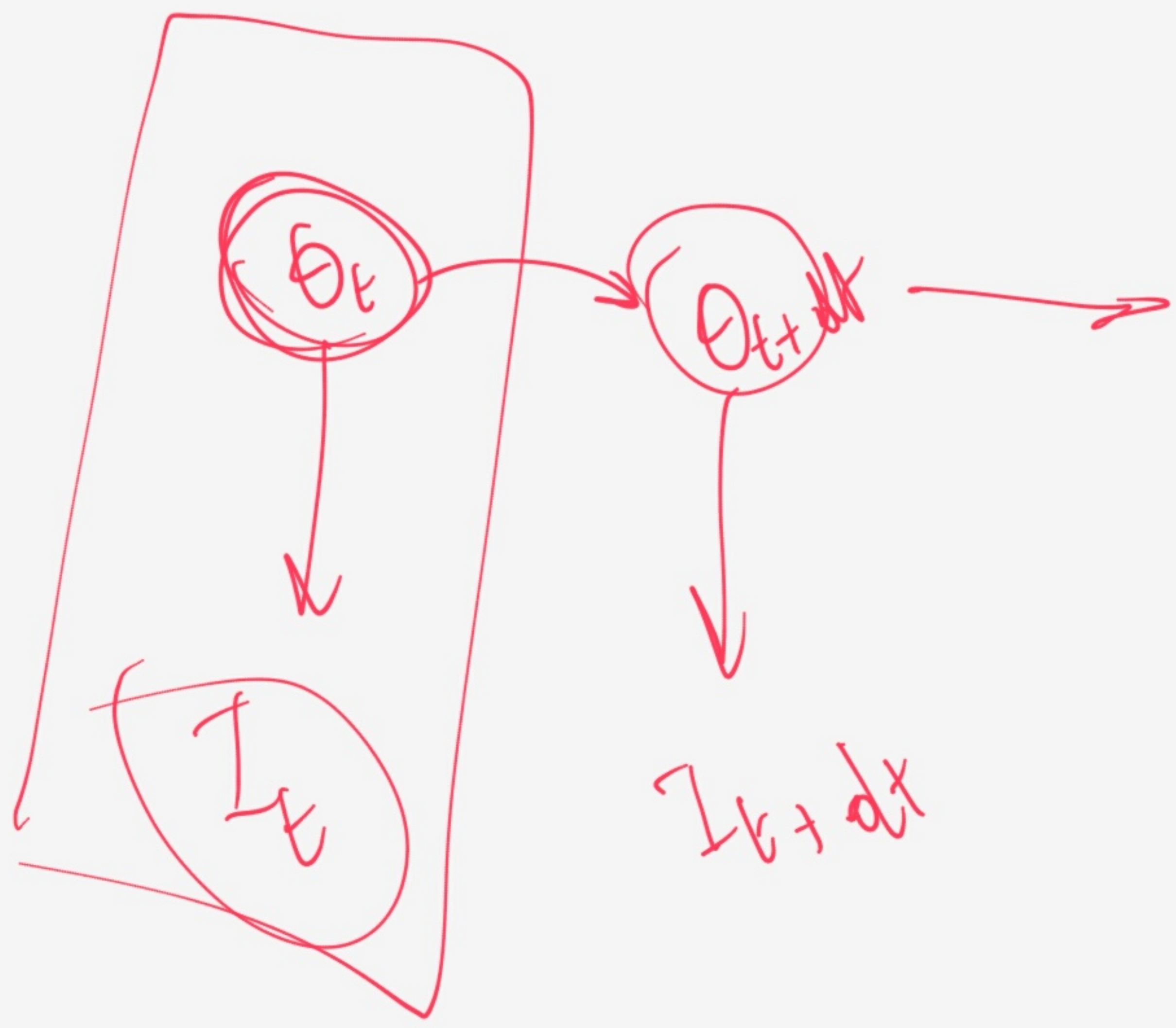




# Neural



# Bayesian





# Plan de travail

latency



## Spik. Neuron

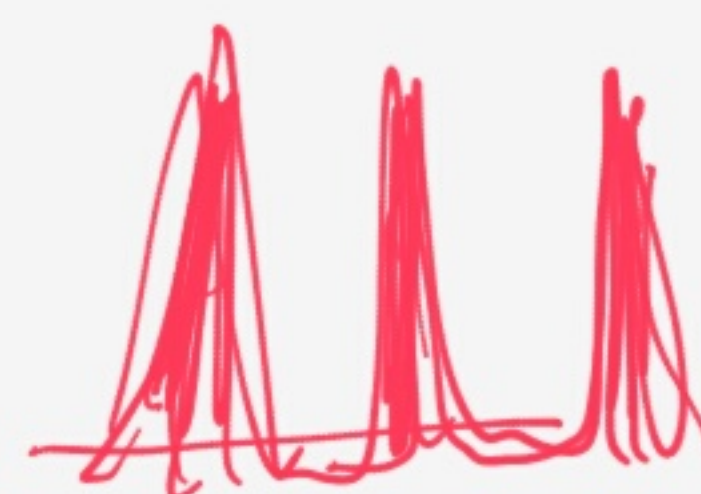
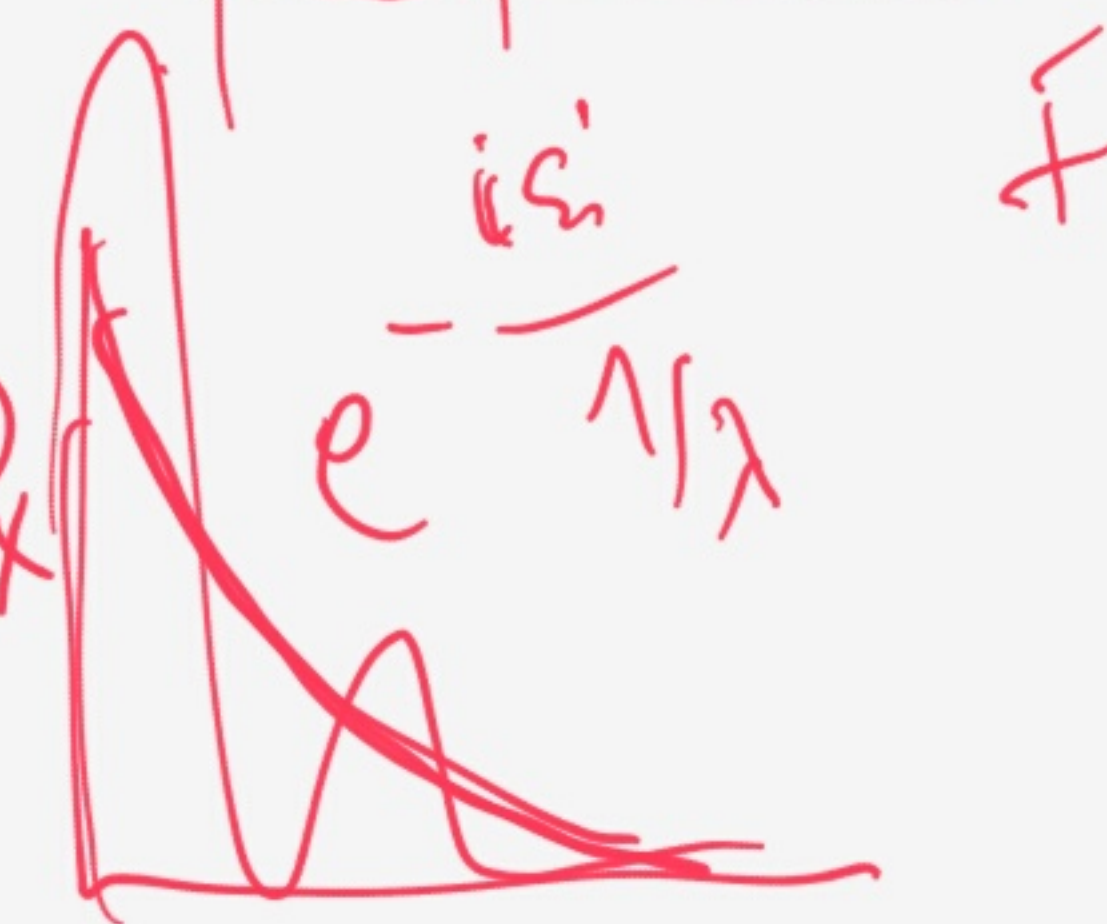
- IF / CUBA / CDDA



- RANN

$[CV \sim H(L(\beta|s), P_{\text{poisson}})]$

Balanced  $(CV \approx 1)$



## Ring Neurotools

$\frac{dI}{dt} \sim \max$

- topology

- motion clouds protocol





# Plan du mémoire

- pb: local  $\rightarrow$  global

- exemple V1 / orientation  $\rightarrow$  Bala V<sub>1</sub>

- plan: RNN / <sup>ring model</sup> balanced state / ring ??

RNN  $\rightarrow$  balanced

- spike
- RNN



$\rightarrow f - I$   
 $\rightarrow CV$

- balanced

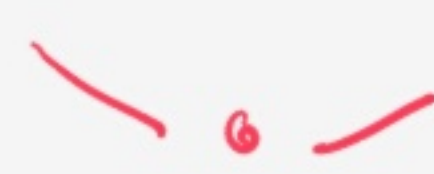
Argmax  
param

$$\frac{d f(I^0 + \lambda / C - 1)}{d I}$$

sachant  $CV \approx 1$

Ring

, topology / stats in networks



- balanced

• Réponse à notre question



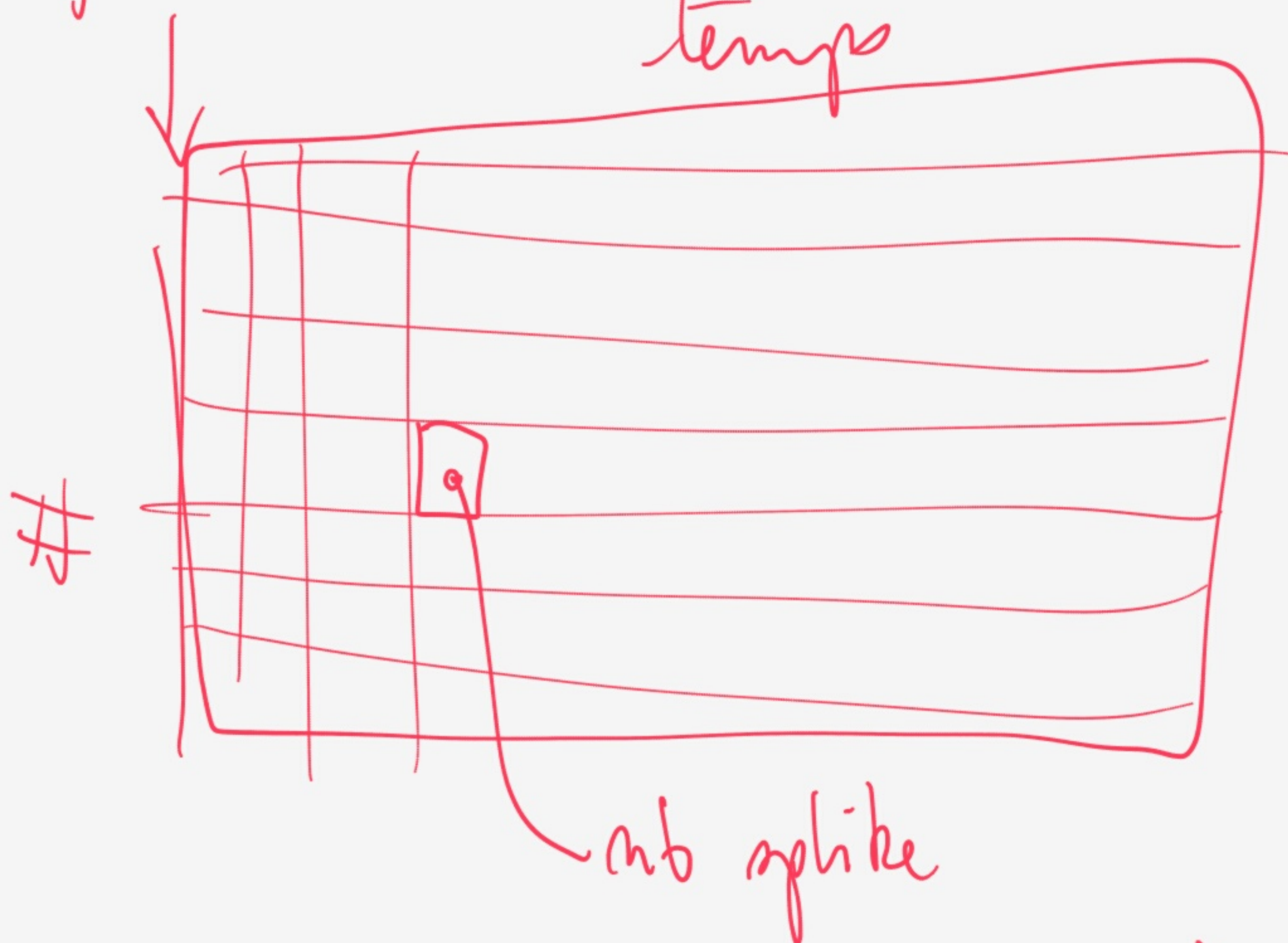
BW of t



haster plot

spike list

temp



imshow (



# optimisation balanced

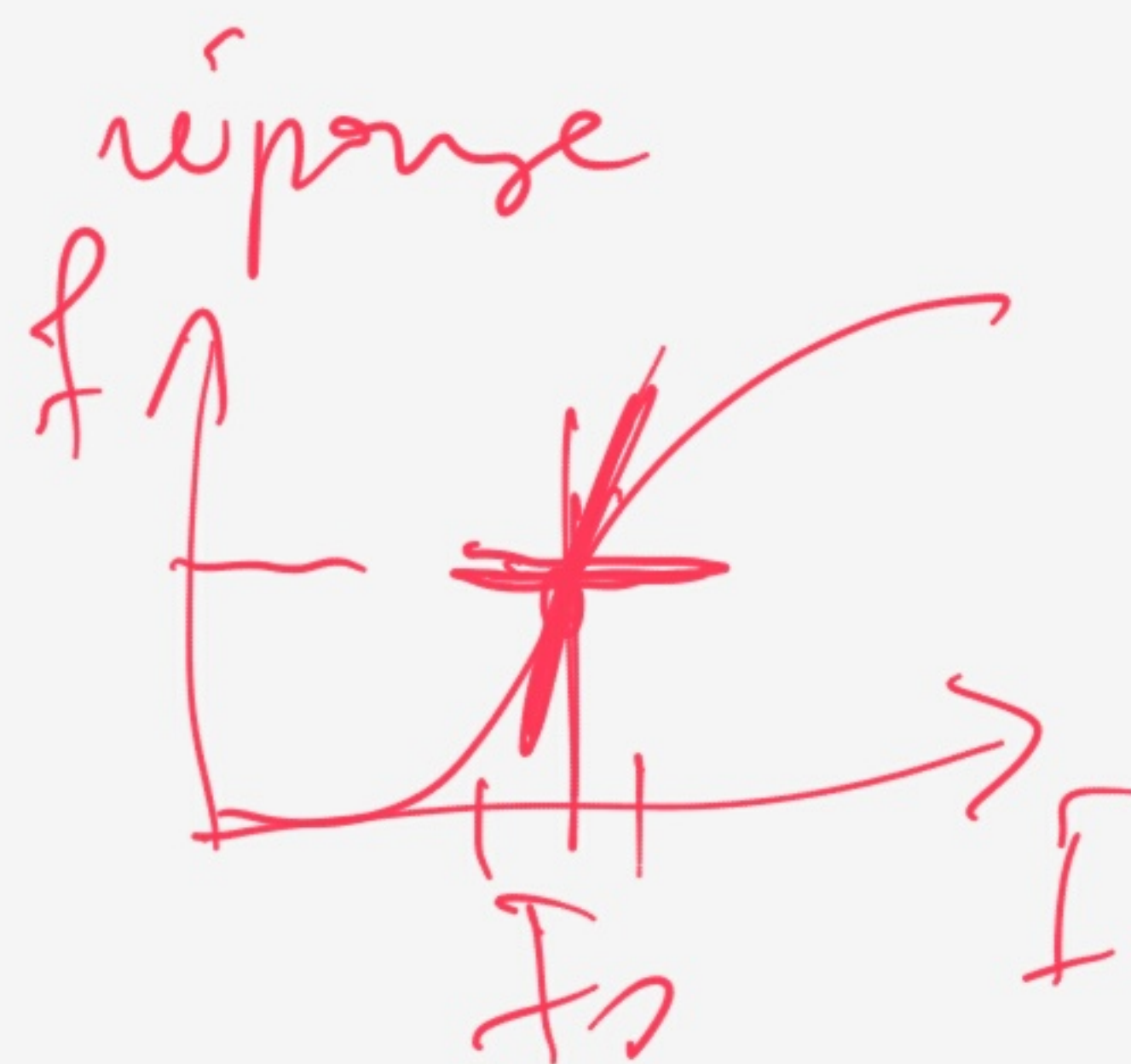
on veut la meilleure  
 $df/dI$

autour de  $I_0 \approx 1 \text{ Hz}$

on définit  $\Delta I = 0.1 \text{ Hz}$

pour un param:  $g$

on plotte  $\Delta f$



$$\frac{df}{dI} \approx \frac{f(I_0 - \Delta I) - f(I_0)}{\Delta I}$$
$$\approx \frac{f(I_0 - \Delta I) - f(I_0 + \Delta I)}{-2\Delta I}$$
$$\approx \frac{-2f(I_0)}{2\Delta I}$$

$$\Delta f + \lambda [CV - 1]$$