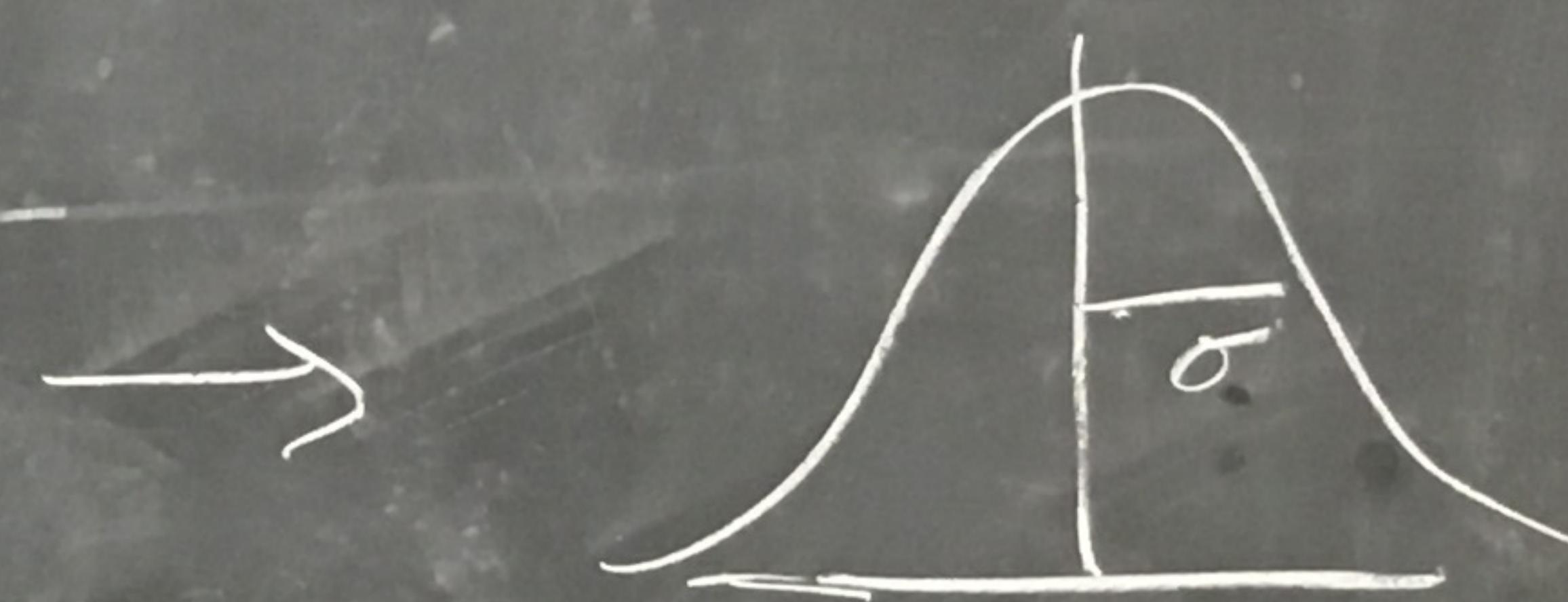
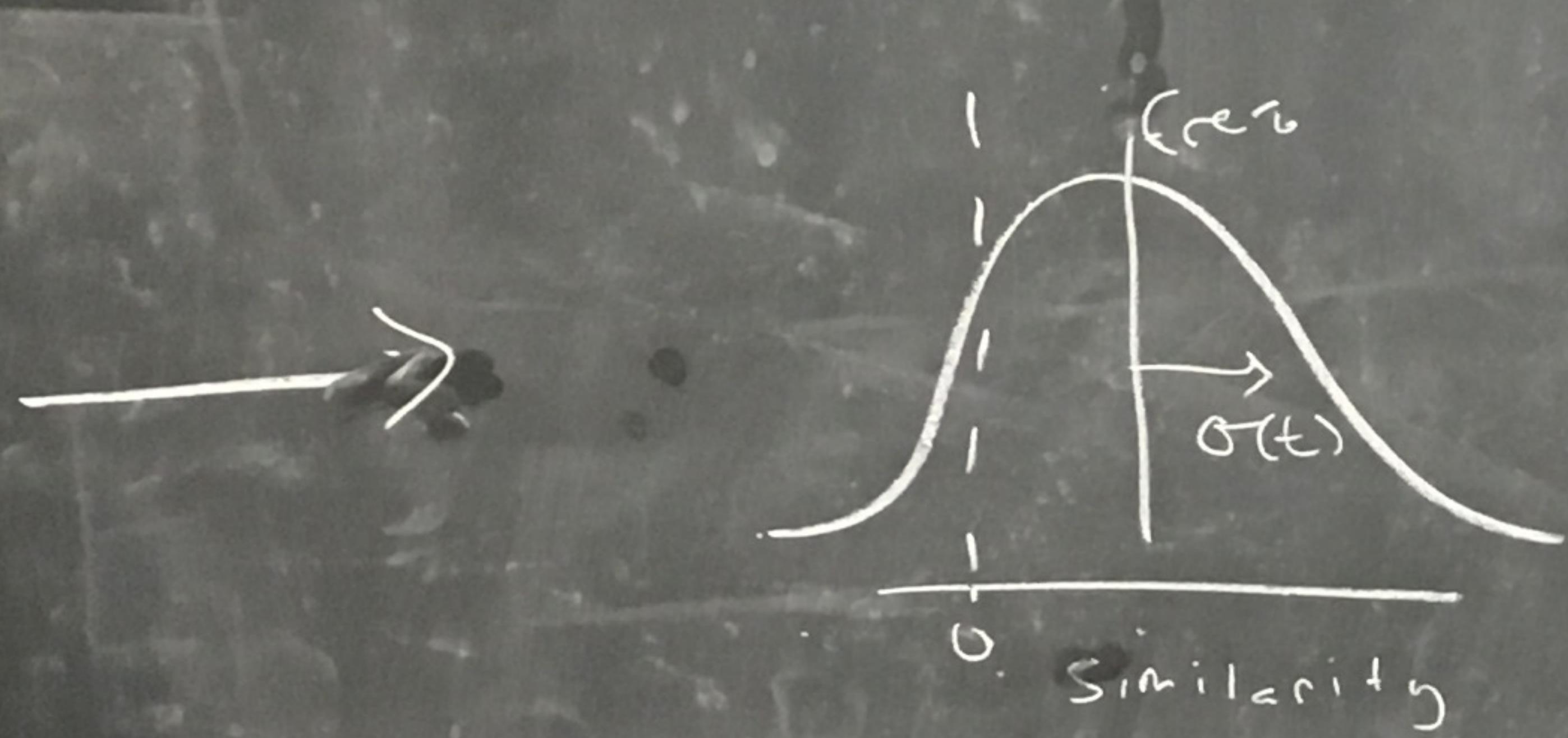


$$\frac{N}{\text{NonZero}(\text{DNA}(\epsilon) - \text{DNA}(\epsilon_0))}$$

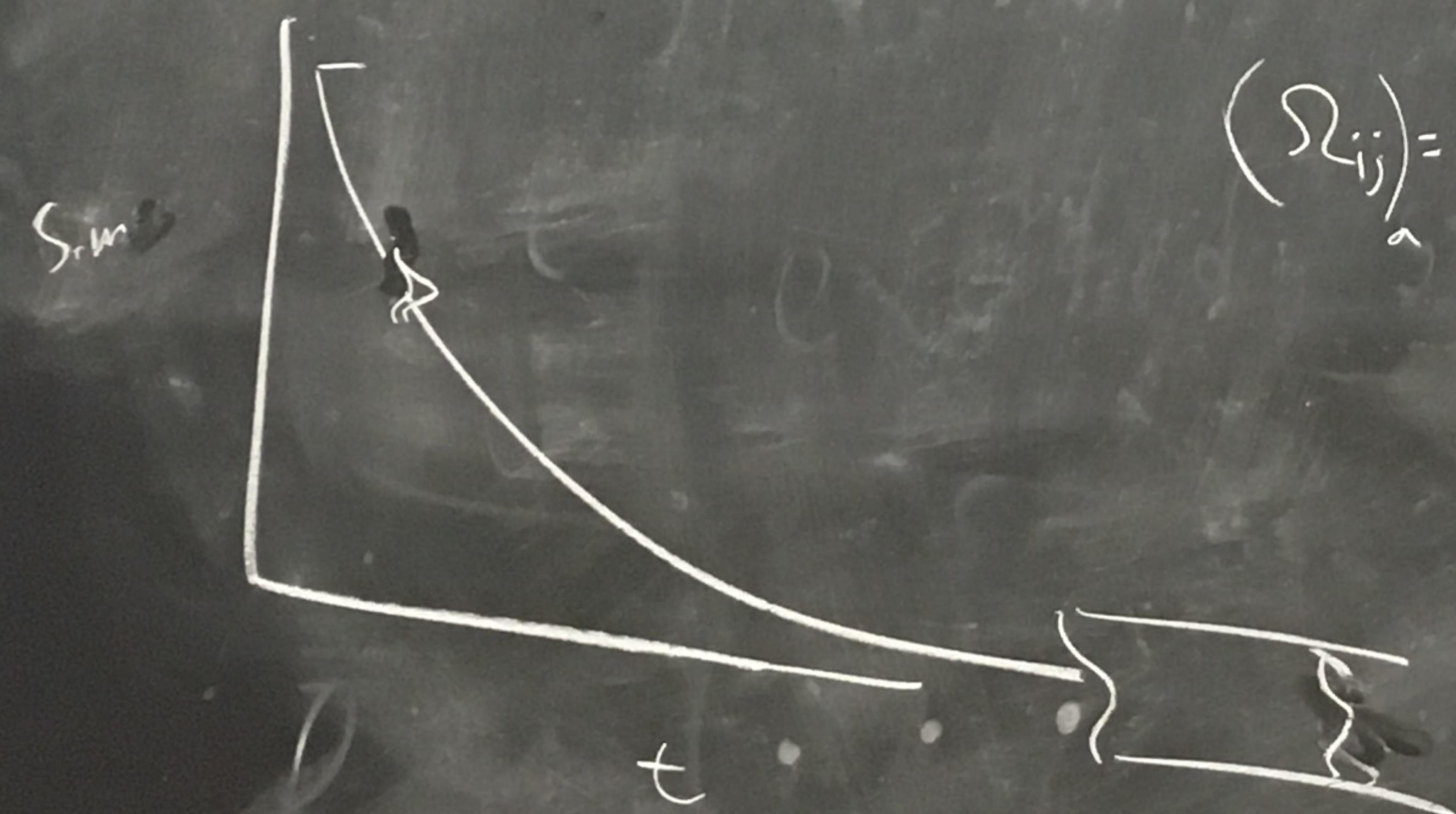
$\uparrow \frac{3}{4} N_{\text{sites}}$

]

#  
0



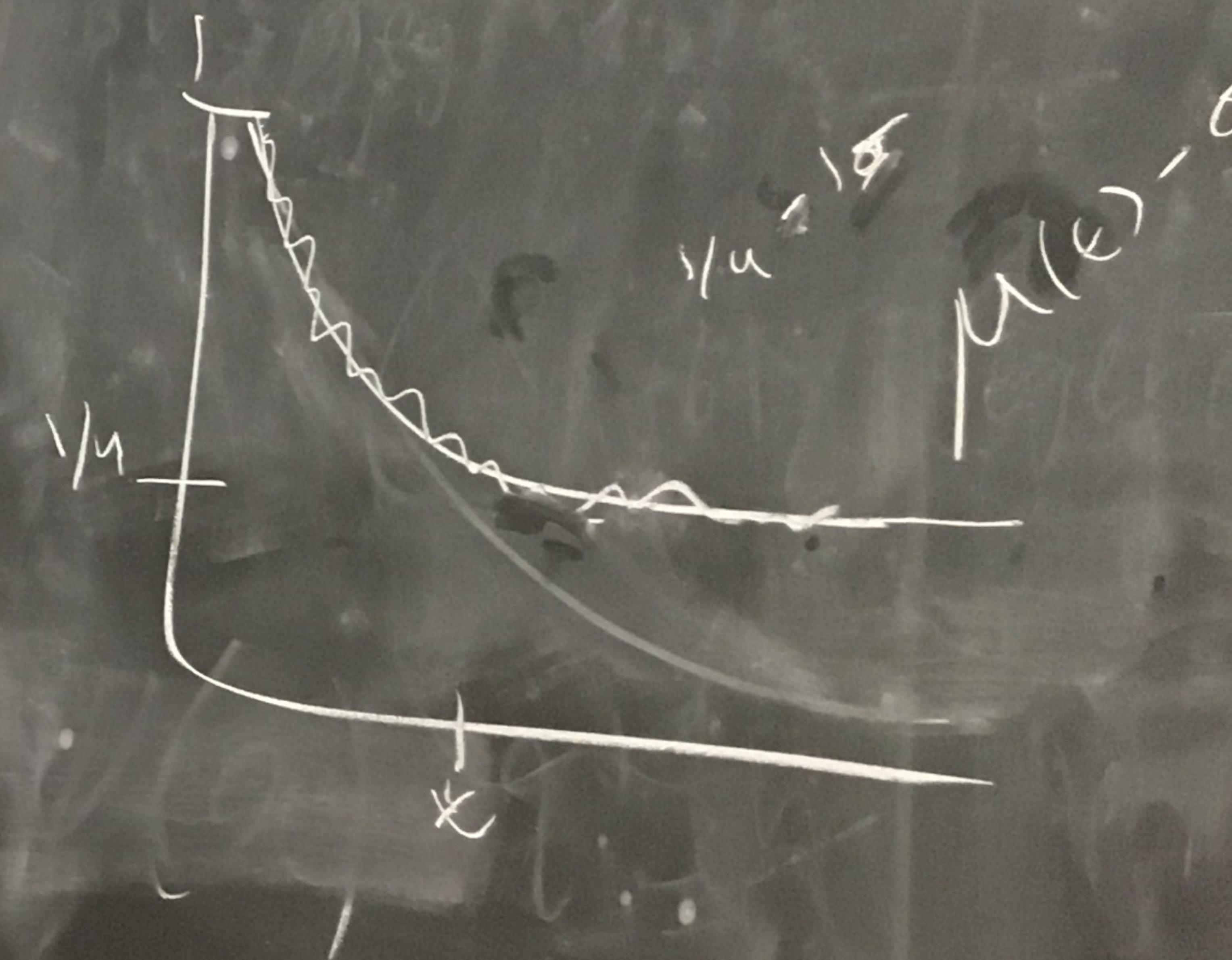
$$\sigma \neq \sigma(0)$$

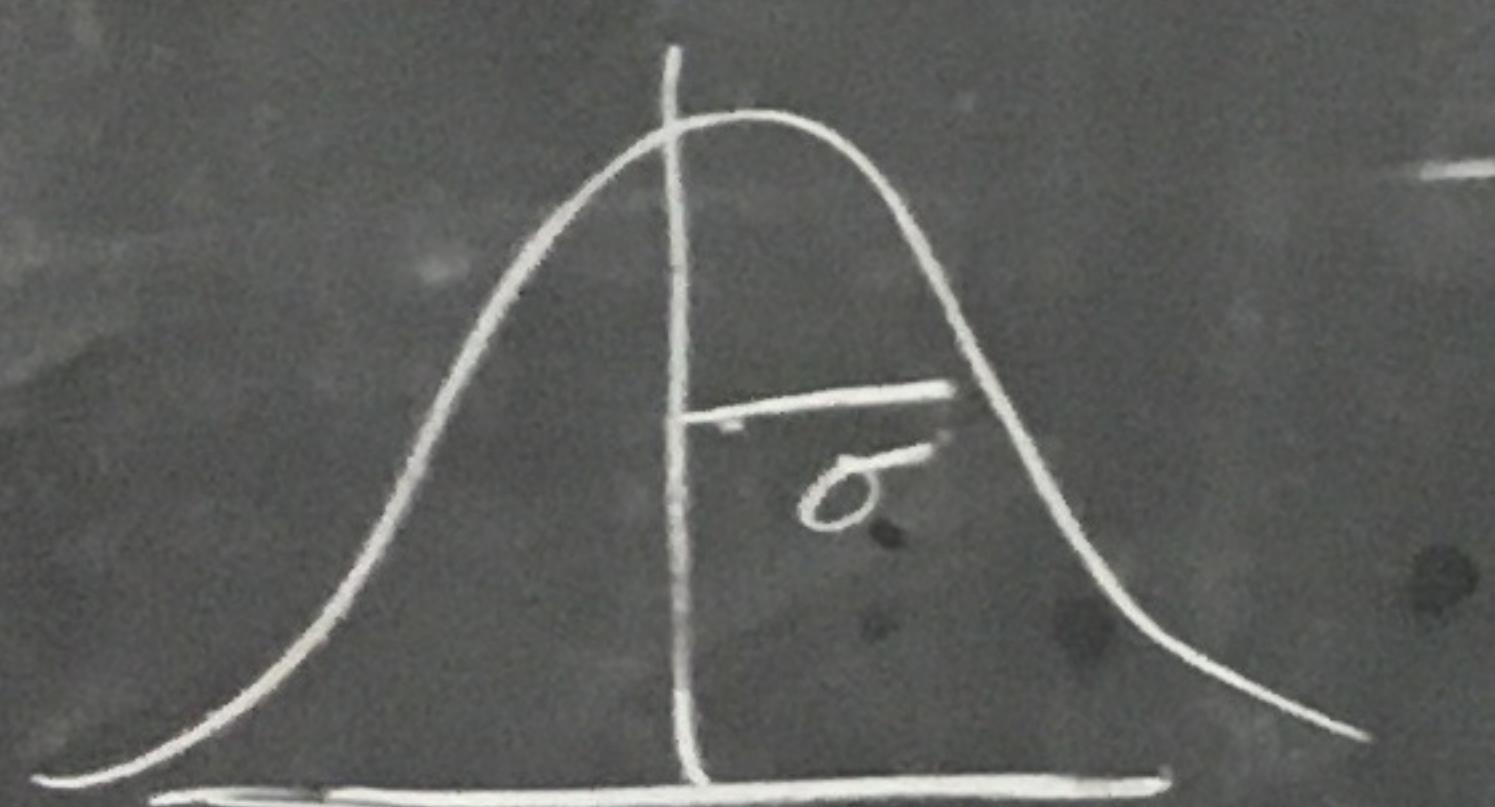


$$(S_{ij}) = \begin{pmatrix} \alpha & \alpha\beta\alpha \\ \alpha\beta\alpha & \alpha \end{pmatrix}$$

$$P_i S_i \sim \text{Beta}(1 - \alpha^2 \beta, \beta)$$

$$S_i \sum_{k=1}^i \frac{P_k S_k}{i}$$





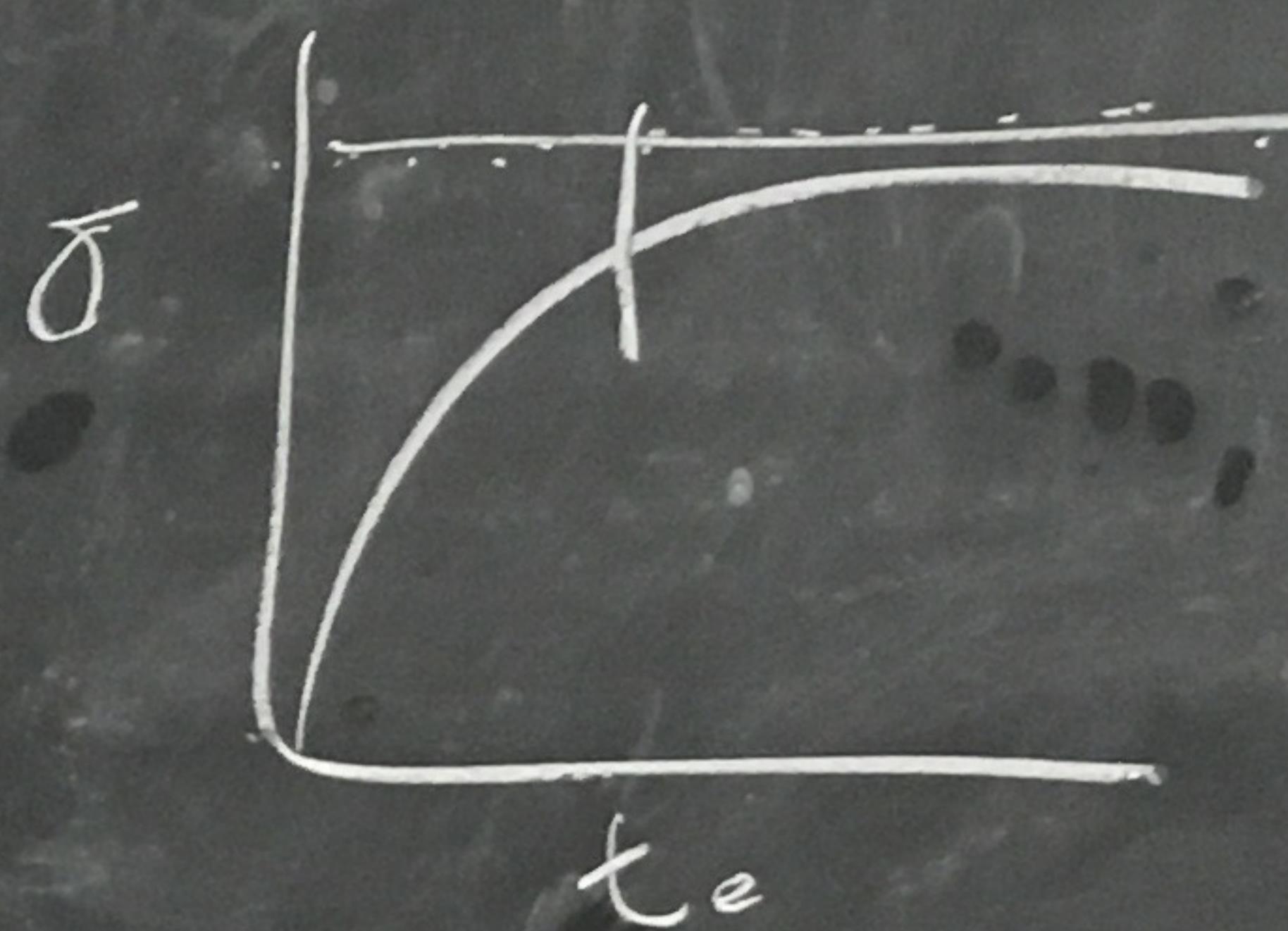
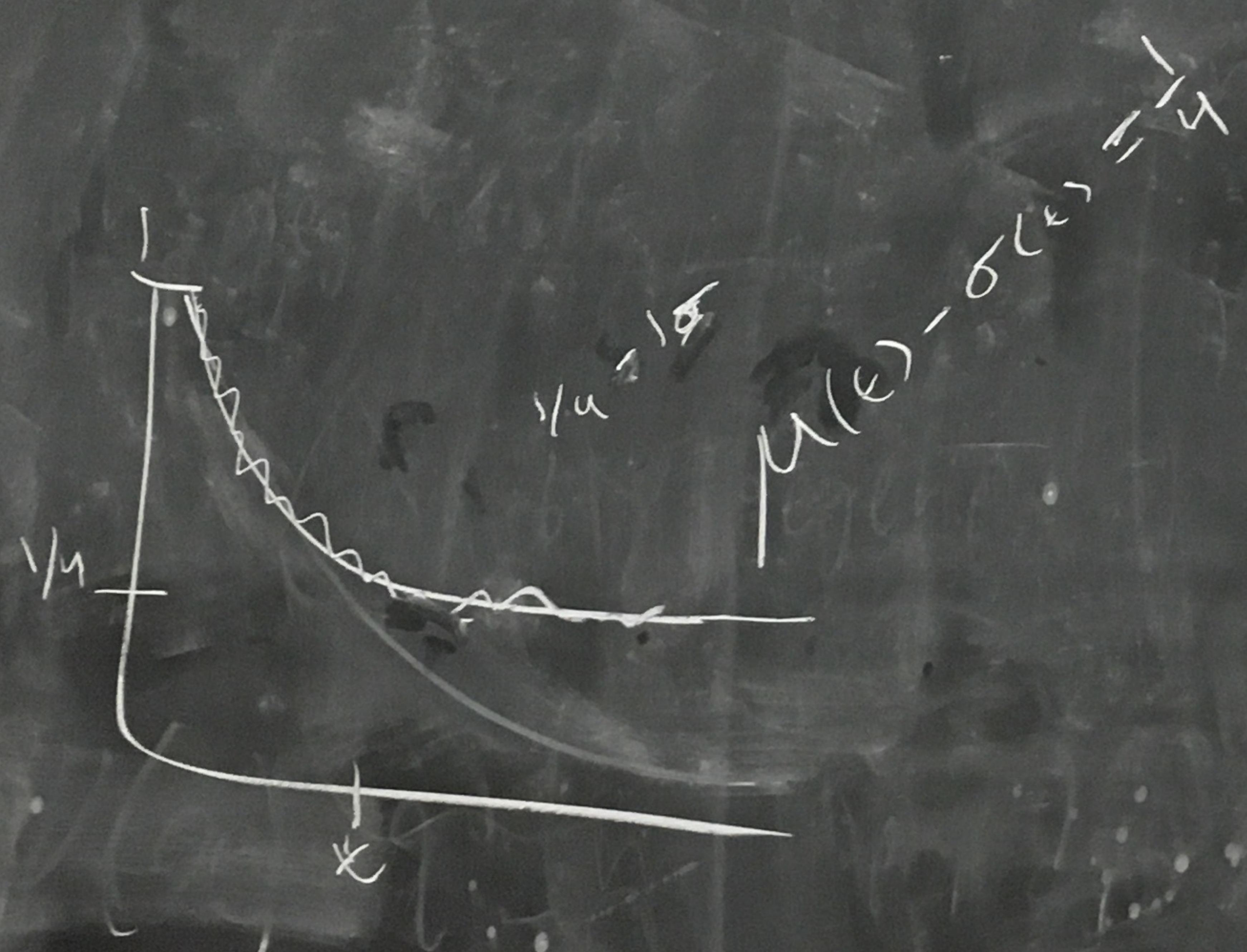
.25

$$\sigma = \sigma(\omega)$$

$$\begin{pmatrix} \alpha & \beta \\ \alpha & \beta \end{pmatrix}$$

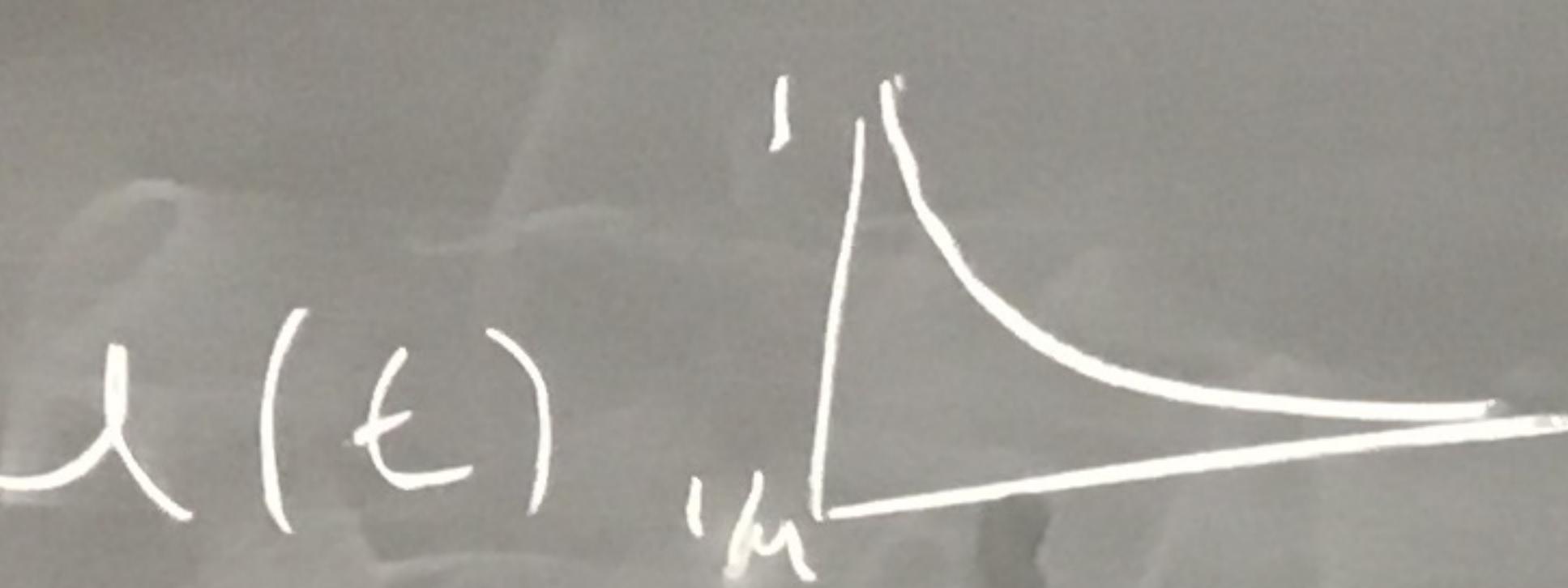
$$P_i S_i \sim \text{Bern}(1 - \alpha^2 \beta)$$

$$S_i \sum_{k=1}^i \frac{P_k S_k}{i}$$



- 1)  $\mu(\cdot)$
- 2)  $\sigma(\cdot)$
- 3) char
- 3)  $\mu(\omega) -$

1)  $\mu(\epsilon)$



2)  $\sigma(\epsilon)$

i) characteristic time

3)  $\mu(\epsilon) - \sigma(\epsilon) = \frac{1}{4}$

i) MFPT to  $\mu = 1, \frac{3}{4}, \frac{1}{2}, \frac{1}{4}$

