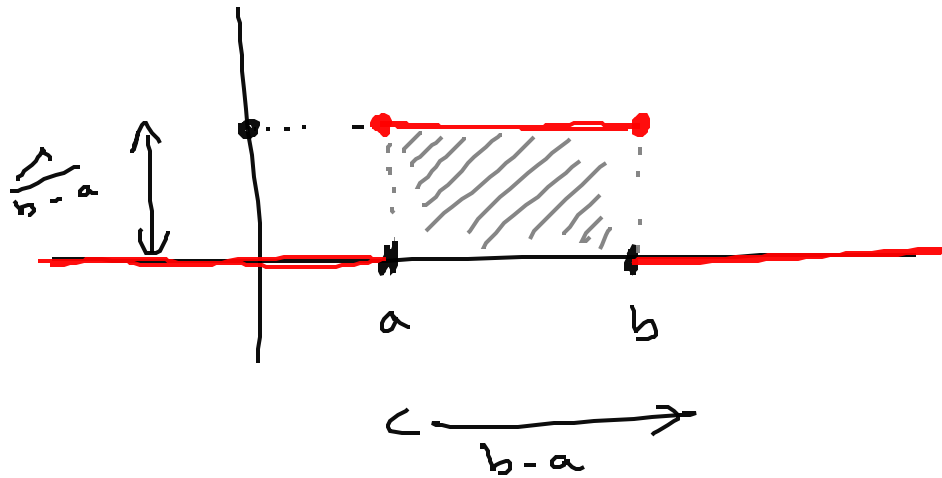


loi uniforme (p 35 cours)
sur $[a, b]$

$$\int_{-a}^{+a} f(x) dx = 1$$



- $X \sim \mathcal{U}_b[a, b]$ si sa densité est la fonction
 $f: x \rightarrow \begin{cases} \frac{1}{b-a} & \text{si } a \leq x \leq b \\ 0 & \text{sinon} \end{cases}$

- $E(X) = \frac{a+b}{2}$ $\text{Var} X = \frac{(b-a)^2}{12} \Rightarrow \sigma_x = \frac{b-a}{\sqrt{12}}$

- $\int dx$ $F: x \rightarrow \begin{cases} 0 & \text{si } x < a \\ \frac{x-a}{b-a} & \text{si } a \leq x \leq b \\ 1 & \text{si } x > b \end{cases}$