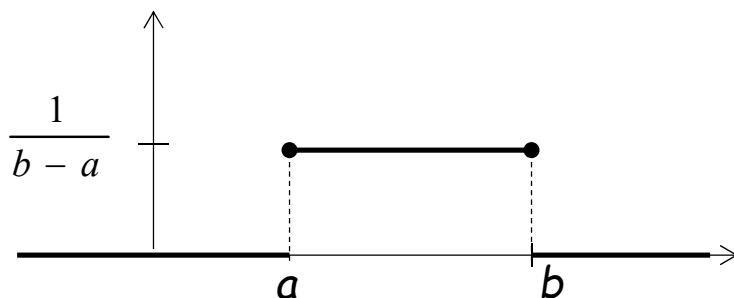


Banaketa Uniformea

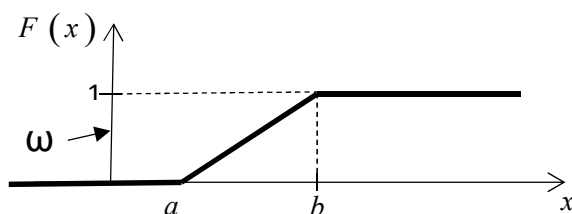
f(x) dentsitate -funtzioa

$$f(x) = \begin{cases} \frac{1}{b-a} & a \leq x \leq b \\ 0 & \text{beste kasue tan} \end{cases} \quad \text{eta} \quad E(X) = \frac{a+b}{2} \quad \text{batezbestekoa edo itxaropena}$$



F(x) banaketa funtzioa

$$F(x) = P(X \leq x) = \begin{cases} 0 & x < a \\ \frac{x-a}{b-a} & a \leq x \leq b \\ 1 & x > b \end{cases}$$



$$\omega = \frac{x-a}{b-a} \rightarrow \omega(b-a) = x-a \rightarrow x = a + \omega(b-a)$$

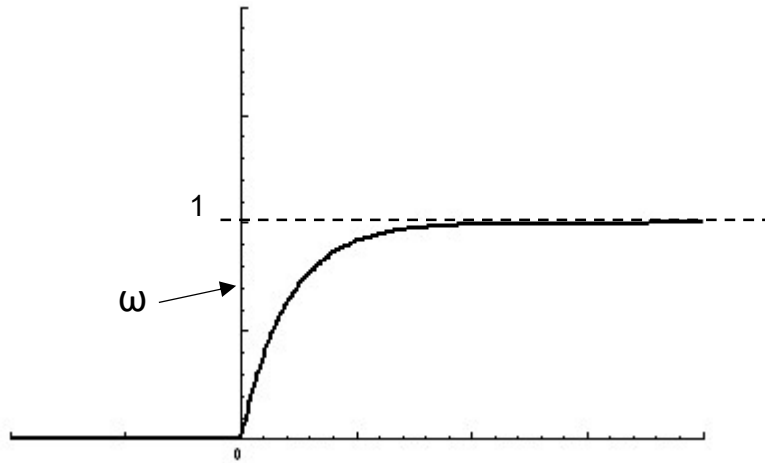
Banaketa esponentziala

f(x) dentsitate -funtzioa

$$f(x) = \begin{cases} \frac{1}{\lambda} e^{-\frac{x}{\lambda}} & x > 0 \\ 0 & x \leq 0 \end{cases} \quad \text{non } \lambda > 0 \quad \text{eta} \quad E(X) = \lambda \quad \text{batezbestekoa edo itxaropena}$$

F(x) banaketa funtzioa

$$F(x) = \begin{cases} 0 & x \leq 0 \\ 1 - e^{-\frac{x}{\lambda}} & x > 0 \end{cases}$$



$$F(x) = \omega$$

$$1 - e^{-\frac{x}{\lambda}} = \omega$$

$$1 - \omega = e^{-\frac{x}{\lambda}}$$

$$\ln(1 - \omega) = \frac{-x}{\lambda}$$

$$x = -\lambda \ln(1 - \omega)$$