Uaeiable continua

Función de peobabilidad $F(x) = P(x \le x)$ $F(x) = \int_{x}^{x} f(t) dt$ $E[x] = \underbrace{\xi}_{x_i} x_i P(x_i)$

function de densidad f(x) = F'(x)

 $P(x_i) = P(X \leq x_i)$ $E[g(x)] = \sum_{i=1}^{k} g(x_i) \cdot P(x_i)$

 $E[x] = \int_{-\infty}^{\infty} f(x) dx$ $E[g(x)] = \int_{-\infty}^{\infty} g(x) f(x) dx$

F: R \rightarrow [0.1] $F(x) = P(X \leq x)$ Lougrable aleatolia

 $Var[X] = E[X-E[X]]^2 = E[X^2]-E[X]^2$