LEZIONE 17

SIEDES: 4-Variabili Discrete 29-33

5- Variabili Continue 1-8

UNIFORME DISCRETA

EVERGEOMETRICA

BERNOULLI

BENOMIALE

POISSON A

GEOMETRICA

LODALLA SERIE GEOMETRICA

1 = 2 r 2 00 | r | < 1

$$\mathcal{Z}[X] = \sum_{X} \chi \mathcal{P}[X = X] = \sum_{X=1}^{2} \chi (1-p)^{X-1} p = \frac{1}{p}$$

$$\sum_{X=1}^{2} \chi^{2} (1-p)^{X-1} p = \mathcal{Z}[X^{2}] = Vac(X) + \mathcal{Z}[X]$$

$$Vac(X) = \mathcal{Z}[X^{2}] - \mathcal{Z}[X]$$

$$=\frac{2-p}{p^2}$$

UNIFORME CONTINUA

$$X \sim V(a,b)$$
; acb

$$f_{x}(0) = \int_{a}^{b} c dx = (b-a) c$$

$$c = \int_{a}^{b} c dx = (b-a) c$$

$$\mathbb{P}\left[d \leq X \leq e\right] = (e-d)C = \frac{e-d}{b-a}$$

$$\mathbb{R}[X \leq x] = \frac{x-9}{b-a}$$

$$\mathcal{Z}\left[X\right] = \frac{x+5}{2}$$

$$\int_{0}^{+\infty} \frac{X}{b-a} dx$$

 $\int_{X} (x) = \begin{cases} c & \text{se } x \in (a,b) \\ 0 & \text{altrimenti} \end{cases}$ 

$$X \sim \mathcal{N}(\mu, \nabla^{2})$$

$$-\frac{(x-\mu)^{2}}{2\sigma^{2}} \rightarrow \text{PUNZIONE CON}$$

$$1 = \int_{-\mathcal{P}}^{C} C e^{-\frac{(x-\mu)^{2}}{\sigma^{2}}} dx$$

$$7 \sim \mathcal{N}(0,1) \qquad \int_{2}^{2} (\pi c) = C e^{-\frac{x^{2}}{2}}$$

$$C \int_{-\mathcal{Q}}^{\infty} -\frac{x^{2}/2}{2\sigma^{2}} dx$$

$$T_{\chi}(x) = \int_{-\mathcal{Q}}^{\chi} e^{-\frac{x^{2}/2}{2\sigma^{2}}} dx$$

$$T_{\chi}(x) = \int_{-\mathcal{Q}}^{\chi} e^{-\frac{x^{2}/2}{2\sigma^{2}}} dx$$