## V.A. CONTINUE

PDF (F.NJ BI DJUSITAL BI PROB.)

$$|P(x \in A)| = \int_{X} (x) dx$$

$$\mathbb{P}\left(X \in [a,b]\right)$$

$$\mathbb{P}\left(\alpha \leq X \leq b\right) = \iint_{\alpha} X(x) dx$$

$$P(X \in A) = \int_{X} (x) dx$$

$$A \leq R$$

$$(\alpha, \alpha + \Delta x) \qquad \Delta x > 0$$

$$P(X \in (\alpha, \alpha + \Delta x)) = P(\alpha \leq X \leq \alpha + \Delta x)$$

$$= \int_{\alpha} (x) dx$$

$$= 0$$

$$P(X \in (\alpha, \alpha + \Delta x)) = P(\alpha \leq X \leq \alpha + \Delta x)$$

$$= \int_{\alpha} (x) dx$$

$$= \int_{\alpha} (x) dx$$

$$= 0$$

$$A = 0$$

$$A =$$

(p(Xell)) = IP(-oc < X < too) = P (w & SZ / X(w) & IR) = 17(22) = (1) /x(m)dr g(n) a, selk حده f(n)dn + f(n) dn + f(x) dn

$$= \int_{a}^{b} dx = e \int_{a}^{b} dx = e \int_{a}^{b} dx$$

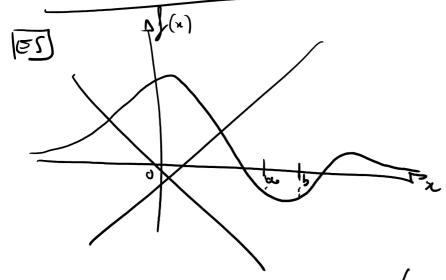
$$= e \cdot (b - a)$$

QUINDI LA PAF DI X E

$$\begin{cases}
\frac{1}{b-a}, & \text{acres}, \\
0, & \text{ALTRONS}.
\end{cases}$$

J et LA PDF DI UNA V.A. UNIFORME.

$$\times \sim \bigcup_{N} ((a,b))$$



SE 
$$\int g(x) dx = C > 0$$

$$\int g(x) dx = 1$$

$$\int g(x) dx = 1$$

LA POTE

$$\int_{X} (x) = \begin{cases} 0, & x < \alpha, \\ \frac{1}{b-\alpha}, & \alpha < x < b, \\ 0, & b < x, \end{cases}$$

## V.A. ESPONENZIALES:

SE HA LA SEGUENTE PDF:

$$\int_{X} (x) = \begin{cases} \lambda e^{-\lambda x} & x > 0 \\ 0 & x < 0 \end{cases}$$

$$\frac{1}{e^{+\lambda}}$$

USATA PER RAPPRISENTARY VEMPI DI VITA

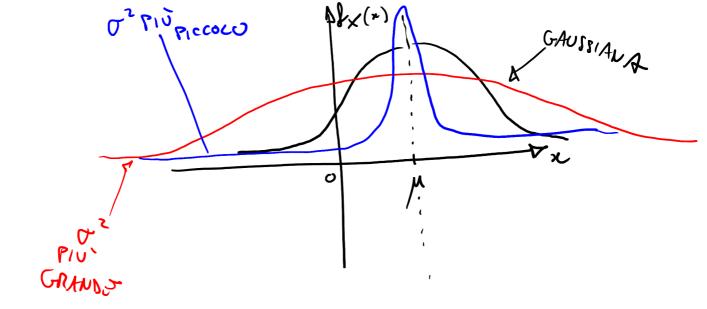
melR m & IR

## V.A. NORMALE;

$$\times \sim \mathcal{N}(\mu, \sigma^2)$$

$$\int_{X} (x) = \frac{1}{\sqrt{2\pi^2}} \cdot Q$$

GAUSS WAVA



a, bell.

AUU BAGO DEIUSISTEIA 12

Nan+p, aooz

NB CA V.A. NORMA CE E INVARIANTE PER TRASFORMAZIONI LINEARU"