$$f(x) = \begin{cases} \kappa x^2 & \text{or } x = 1 & \text{in } \in |R| \\ 0 & \text{otherwy} \end{cases}$$

$$K = \int_{-\infty}^{+\infty} F(x) dx = 1$$

$$k\int_{a}^{b}x^{2}dx$$

$$k \left(\frac{2}{3} \right)^{1}$$

$$k\left[\begin{array}{cc} \frac{1^3}{3} - \Theta \end{array}\right]$$

$$K = \frac{1}{3}$$

2) FUNHANG d. DISTRIBUZIONE

$$Fx = \int_{0}^{x} kx^{2} dx$$

$$= k \int_{0}^{x} x^{2} dx$$

$$: K \left[\frac{\kappa^3}{3} \right]_0^K$$

$$= K \left[\frac{x^3}{3} - O \right]$$

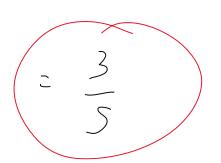
$$=\left(\chi^{3}\right)$$

$$F_{n}(x) = \begin{cases} 0 & x < 0 \\ 23 & 0 < x = 7 \\ 1 & 22 > 7 \end{cases}$$

MediA

$$E(x) = \int_{-\infty}^{+\infty} F(x) \cdot x \, dx$$

$$= \int_{-\infty}^{+\infty} X \, dx$$



FARIANZA

$$V_{A}(x) = \frac{3}{5} - \left(\frac{3}{5}\right)$$

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$$\frac{3}{5}$$
 $\frac{9}{16}$ $\frac{3}{80}$ $\frac{3}{80}$

$$F_{Y} = P(Y \leq y)$$

$$F_{y}(y) = \begin{cases} 0 & y \neq 0 \\ y & 0 \end{cases}$$

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FUNZIONE D: DENSITA

$$f(y) = \frac{a!}{a!} \qquad \forall y$$

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