$$f(x) = \begin{cases} \kappa x^2 & -1 < x < 0 & \kappa \in \mathbb{R} \\ 0 & \text{there} \end{cases}$$

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

$$k \int_{-1}^{\infty} x^{2} dx$$

$$k \left[ \frac{x^{3}}{3} \right]_{-1}^{0}$$

$$\mathcal{L}\left[0-\frac{3}{3}\right]$$

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

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

(2) FUNHAME OF DISTRIBUZIONE

$$fx = \int_{-1}^{2} k x^{2} o / x$$

$$= \lambda \int_{-1}^{2} x^{2} o / x$$

$$= \lambda \int_{-1}^{2} x^{2} o / x$$

$$= \lambda \int_{-1}^{2} x^{3} \int_{-1}^{2} x^{3}$$

$$= \lambda \int_{-1}^{2} \frac{x^{3}}{3} + \frac{1}{3}$$

$$= \lambda \int_{-1}^{2} \frac{x^{3} + 1}{3}$$

$$F_{2}(x) = \begin{cases} 0 & x < -1 \\ x + 1 & -1 < x < 0 \end{cases}$$

Esercizi Blocco 2[2]

MeniA

$$\begin{bmatrix} \frac{3}{7} \\ \frac{3}{7} \end{bmatrix}$$

$$\begin{cases}
F(x) - \int_{-\infty}^{+\infty} F(x) \cdot x^{2} dx \\
= \int_{-1}^{\infty} \mathcal{R} x^{2} \cdot x^{2} \\
= \mathcal{K} \qquad \mathcal{K} \qquad \mathcal{K}
\end{cases}$$

Esercizi Blocco 2[2

$$= \frac{1}{5} \left[ \frac{3}{5} \right] - 1$$

$$V_{A}(x) = \frac{3}{5} - \left(-\frac{3}{5}\right)^2$$

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

$$\left(\frac{3}{8}\right)$$



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

$$E_{y} = P(X^{3} = y) = P(x = y^{3}) = \bigcup_{i=1}^{n} J_{i}$$

Esercizi Blocco 2[2]

$$F_{y}(y) = \begin{cases} y = 0 \\ y = 1 \end{cases}$$

$$y = 1$$

$$y = 1$$

$$y = 1$$

tunzione D: Densita

$$f_{y} = \frac{d}{dy} + 1$$

$$= \frac{d}{dy} + 1$$

Pry) { I -18 9 5 1 al hour

Esercizi Blocco 2[