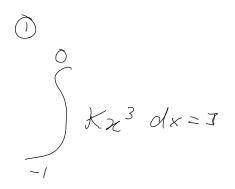
$$f(x) = \begin{cases} kx^3 - 1 - x + 0 & k > 0 \\ 0 & \text{otherwood} \end{cases}$$

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



$$\kappa \int_{-1}^{6} x^{3} dx = 1$$

$$K\left[\frac{2}{3}\right]^{3}=1$$

$$\mathcal{L}\left[\begin{array}{c}0\\0\\\end{array}-\frac{\iota}{9}\right]=1$$

$$F_{x} = \int_{-\infty}^{\infty} F(x) dx$$

$$Fx = \int_{-1}^{x} \kappa x^{3} dx$$

$$F \times = K \int_{-1}^{\infty} x^3 dx$$

Esercizi Blocco 2

$$Fx = \mathcal{K} \left[\frac{\mathcal{X}^{9}}{9} \right]_{-1}^{\mathcal{K}}$$

$$Fx = \mathcal{K} \left[\frac{\mathcal{X}^{9}}{9} - \frac{1}{9} \right]$$

$$Fx = \mathcal{K} \left[\frac{\mathcal{X}^{9}}{9} - \frac{1}{9} \right]$$

$$Fx = -\mathcal{K} \left[\frac{\mathcal{X}^{9}}{9} - \frac{1}{9} \right]$$

$$Fx = -\mathcal{X}^{9} + 1$$

$$F_{\mathcal{X}}(X) = \begin{cases} 2x < -1 \\ -x^4 + 1 \end{cases}$$

Media

+00

Esercizi Blocco 2

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

$$-4 \int_{-1}^{6} x^{9} dx$$

$$-4 \left[\frac{\times}{5} \right]^{-1}$$

$$-4 \left[0 - \left(-\frac{1}{5} \right) \right]$$

Media 22

$$\begin{array}{c}
0 \\
-4 \times^3 \times^7 d\times \\
\end{array}$$

$$-5$$
 \int_{-1}^{6} χe^{5} $d\lambda$

$$-4 - \frac{1}{6} = \frac{2}{3}$$

VARIAZZA

$$Var(x) = \frac{2}{3} - \left(\frac{9}{5}\right)^{7}$$

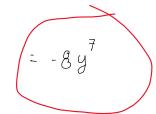
$$=\frac{2}{3}-\frac{16}{25}$$

$$=\frac{50-48}{75}$$

$$F_Y = P(Y \leq y)$$

$$F_Y = P(x^{\frac{1}{2}} \leq y) = P(x \leq y^2) \leq \left(-y^8 + 1\right)$$

FUHZIONE Di STRIBIZIONO



$$\begin{cases} -8y^7 \\ 0 \end{cases}$$