Esercizio 6

venerdì 14 maggio 2021 19:34

X v.a Discreta

VALOR: di X = (2,4,6)

(1) VAORE di C

(i)

 $F_{x}(x) = P(X \leq x) = P(\omega \in x : X(\omega) \leq x)$ par $\forall x \in \mathbb{R}$

$$\int_{\mathcal{X}} P(\alpha) = 0$$

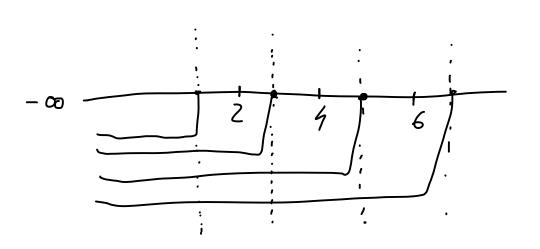
$$P(z) = 0$$

$$2 \leq x \leq 4$$

$$P(z) + P(4) = 0$$

$$P(x) = 1$$

$$x > 6$$



GRAFICO

Hedia

$$E(X) = \sum_{\mu: \, \chi_{\mu} \in S} \chi_{\mu} \cdot \rho \times (\chi_{\mu})$$

 $\chi_{1} \cdot \rho(\chi_{1}) + \chi_{2} \cdot \rho(\chi_{2}) \times \chi_{3} \rho(\chi_{3})$

VARIAN ZA

$$Var(X) = \sum_{i=1}^{K} (z_i - EM)^2 p \cdot i$$
oprure
$$\sum_{i=1}^{K} z_i^2 \rho_i - E(x)^2$$

-3 X+b = E STRETTATIENTE MONETONA

$$P(Y=-12+b) = P(-3X+b) = P(x=4) = 0.9$$

 $P(Y=-18+b) = P(-3X+b) = P(x=6) = 0.1$

$$F_{Y}(y) = \begin{cases} \frac{1}{1} & 0 \\ \frac{1}{1} & \frac{1}{1}$$

$$E(y) = (-6+b) \cdot 0.5 + (-12+b) \cdot 0.4 + (-18+b) \cdot 0.1$$

$$= -3 + 0.5b + 4.8 + b.0.4 - 1.8 + 0.1$$

$$= -9.6 + b$$

$$Var(y) = \sum_{i=1}^{y} (y_i - E(y))^{i} \cdot p \cdot i$$

$$\forall AR(Y) = (-6+b-9.6+b).os+(-12+b-9.6+b)^{2}.o.4+(-18+b-9.6+b).o.4+(-18+b-9.6+b).o.5+(-21.6').(2b)^{2}].o.4+(-27.6)^{2}+(-27.6)^{2}+(-27.6)^{2}$$