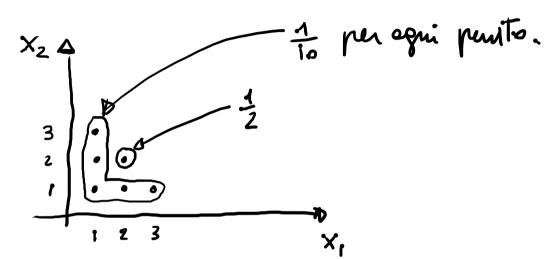
E SERCIZIO

Considerame la seguente deusità congiunta



Coledone
$$\mathbb{E}[X_1 + X_2]$$

Svolginents

P_V(2) = P_V(1.1) =
$$\sqrt{1}$$

$$P_{y}(2) = P_{x}(1,1) = \frac{1}{10}$$

$$P_{Y}(2) = P_{X}(1,1) = \frac{1}{10}$$

$$P_{Y}(3) = P_{X}(1,2) + P_{X}(1,2)$$

$$P_{Y}(3) = P_{X}(1,2) + P_{X}(2,1) = \frac{1+1}{10} = \frac{2}{10}$$

$$P_{Y}(3) = P_{X}(1,2) + 1$$

$$= \rho_{\times} (1,3) + \beta$$

$$= \rho_{\times} (1,3) +$$

$$P_{Y}(4) = P_{X}(1,3) + P_{X}(2,2) + P_{X}(3,1) = \frac{1}{10} + \frac{1}{2} + \frac{1}{10} = \cdots = \frac{7}{10}$$

$$= p_{\times}(1,3) + 1$$

$$= \rho_{\times} (1,3) +$$

$$P_{\underline{\times}}(1,3) + \emptyset$$

E[Y]= 2. Py(z)+3. Py(3)+4. Py(4)=2. +3. 20+4. 70=

 $= \frac{2 + 6 + 28}{10} - \frac{36}{10} = \frac{18}{5}$

HE TODO AUTERNATIVO

HE TODO AUTERNATIVO

$$| E[Y] = |E[X_{1} + X_{2}] = (1+1) P_{\underline{X}}(1,1) + (1+2) P_{\underline{X}}(1,2) + (2+1) P_{\underline{X}}(2,1) + (2+1) P_{\underline{$$

 $+(3+1)P_{\times}(3,1)+(2+2)P_{\times}(2,2)+(1+3)P_{\times}(1,3)=$

 $+4\cdot\frac{1}{10}+4\cdot\frac{1}{2}+4\cdot\frac{1}{10}=\frac{2+3+3+4+20+4}{10}=$

 $=\frac{10}{36}=\frac{2}{18}$

= 2.1 + 3.1 + 3.1 +

METODO AUTERNATIVO ULTERIORE

[[X] + [[X2].

IE[Y] = 18+18 = 36 = 18.

 $E[X_1] = E[X_2] = 1 \cdot \frac{3}{10} + 2 \cdot \frac{6}{10} + 3 \cdot \frac{1}{10} = \frac{3 + 12 + 3}{10} = \frac{18}{10}$

S. danabbe autre

Px2 stena cose

Px, (1)=3, Px, (2)=6, Px, (3)=10