$$\begin{cases} x, y \mid x, y \rangle = \begin{cases} 0 & \text{or } x < 1, \text{or } y < 1 \\ 0 & \text{otherwise} \end{cases}$$

$$\int_{-\infty}^{\infty} \int_{xy}^{x} (x,y) dy = \int_{0}^{1} \int_{0}^{1} dy = 1(1-0) = 7$$

$$f_{y}(y) = \int_{-\infty}^{\infty} f_{xy}(x,y) dx = \int_{0}^{1} dx = 1$$

$$\begin{cases} x = (0,1) & 0 < 2 < 1 \\ 0 & \text{oltrove} \end{cases}$$

$$\begin{cases} y \in (0,1) & 0 \leq y \leq 1 \\ y = 0 & \text{otherw} \end{cases}$$

densité MARGINAU

$$E \times = \int_{-\infty}^{\infty} \mathcal{X} \left(\mathcal{X} \right) dx$$

$$= \frac{\chi^2}{2} \left| \frac{\chi^2}{2} - \frac{\sigma}{2} \right|^2 = \frac{1}{2}$$

$$E_{\chi} = \int_{-\infty}^{\infty} y \, dy \, dy = \frac{1}{2}$$

$$E_{\chi} = \int_{-\infty}^{\infty} x^{2} \, dx = \frac{1}{2} \int_{0}^{2\pi} dx = \frac$$

$$Ey^{2} = \int \chi^{2} \left\{ \left\{ \left\{ \left\{ \chi \right\} \right\} \right\} \right\} d\chi = \int \chi^{2} o(\chi) = \left(\frac{1}{3} - c\right)^{2} = \left$$

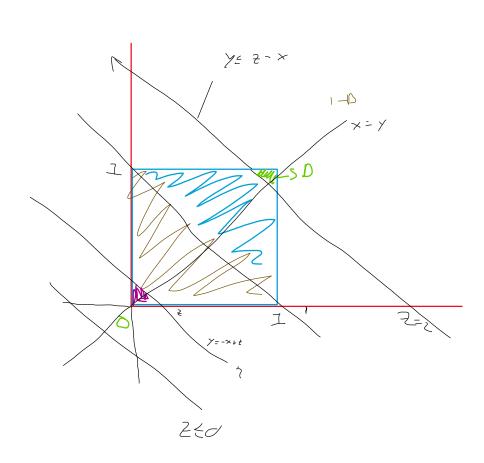
Esercizio Blocco 3

$$Var \times = E \times^{2} - (E \times)^{2} = \frac{1}{3} - (\frac{1}{2})^{2} = \frac{1}{3} - \frac{1}{5} = \frac{1}{3}$$

$$V_{ARY} = E_{Y}^{2} - (E_{Y})^{2} = \frac{1}{3} - \frac{1}{5} = \frac{1}{12}$$

$$Cov(x,y) = 0$$

$$F_{2}(z) = P(2 \leq z) = P(x+y \leq z)$$



$$\begin{array}{c|cccc}
 & 0 & z \leq 0 \\
\hline
2^{2} & 0 \leq z < 1 \\
\hline
2 & (2)^{2} & (2)^{2} & (2)^{2} \\
\hline
1 & 2 \geq 2
\end{array}$$

$$\begin{cases} 2 & 0 & 2 \leq 0 \\ 3 & 0 \leq 2 \leq 0 \end{cases}$$

$$\begin{cases} 2 & 0 \leq 2 \leq 0 \\ 2 & 0 \leq 2 \leq 0 \end{cases}$$

$$\begin{cases} 2 & 0 \leq 2 \leq 0 \\ 2 & 0 \leq 2 \leq 0 \end{cases}$$

$$\begin{cases} 2 & 0 \leq 2 \leq 0 \\ 2 & 0 \leq 2 \leq 0 \end{cases}$$

$$\begin{cases} 2 & 0 \leq 2 \leq 0 \\ 2 & 0 \leq 2 \leq 0 \end{cases}$$

ARRA D =
$$(\frac{2}{2} - 1)$$

$$= (1 - (\frac{2}{2} - 1))$$

$$= (1 + 1 - \frac{2}{2})$$

$$= (\frac{2}{2} - 2)^{2}$$

$$=\frac{2^{3}}{3}\left|_{0}+\left(2^{2}-\frac{2^{3}}{3}\right)\right|_{1}$$

$$\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 0$$

$$E = \frac{1}{5} + \frac{11}{12} = \frac{7}{6}$$

VAR 2 =
$$\frac{7}{6} - \frac{1}{2} = \frac{1}{6}$$