$$f_{x_2}(x_2) = f_{x_1}(x_1) = \begin{cases} 1 & x \in (1/2) \\ 0 & \text{otherwise} \end{cases}$$

$$F_{\chi_2}(\chi_2) = F_{\chi_1}(\chi_1) = \begin{cases} 0 & \chi \in \mathcal{I} \\ \frac{1}{2} & d\chi = \begin{cases} 0 & \chi \in \mathcal{I} \\ 1 & \chi \geq 2 \end{cases} \end{cases}$$

$$F_{U}(\omega): P(\max(x_1, x_2) = \omega) = P(x_1 = \omega_1, x_2 = \omega) =$$

SONO INDIPENDENT

$$= P[(F \times (\omega))^{2}] = \begin{cases} 0 & \omega \in \mathbb{Z} \\ (\omega - 1)^{2} & \Im = \omega \in \mathbb{Z} \\ 0 & \omega \neq \mathbb{Z} \end{cases}$$

SONO INDIPENDENT

SONO TRUPTICATION TO

OUTSIDE OF THE PROPERTY

OU

$$F_{\nu}(\nu) = P(\min(x_1,x_2) < \nu) = 2 - P(\min(x_1,x_2) > \nu)$$

$$= \begin{cases} 0 \\ J - (1 - (V - I))^2 \\ 1 \end{cases} = \begin{cases} 0 \\ J - (2 - U)^2 \\ I \end{cases} \begin{cases} 0 \\ -V + 4U - 3 \end{cases} \qquad \forall < 1$$

$$\forall \geq 2$$

$$F_{y}(y) = \frac{P(\max(x_{1}, x_{2}) - \min(x_{1}, x_{2}) \leq y)}{P(\max(x_{1}, x_{2}) - \min(x_{1}, x_{2}) \leq y, x_{1} \leq x_{2})}$$

$$= \frac{P(\max(x_{1}, x_{2}) - \min(x_{1}, x_{2}) \leq y, x_{1} \leq x_{2})}{S(\max(x_{1}, x_{2}) - \min(x_{1}, x_{2}) \leq y, x_{1} \geq x_{2})}$$

$$= \frac{P(\max(x_{1}, x_{2}) - \min(x_{1}, x_{2}) \leq y, x_{1} \geq x_{2})}{S(\max(x_{1}, x_{2}) - \min(x_{1}, x_{2}) \leq y, x_{1} \geq x_{2})}$$

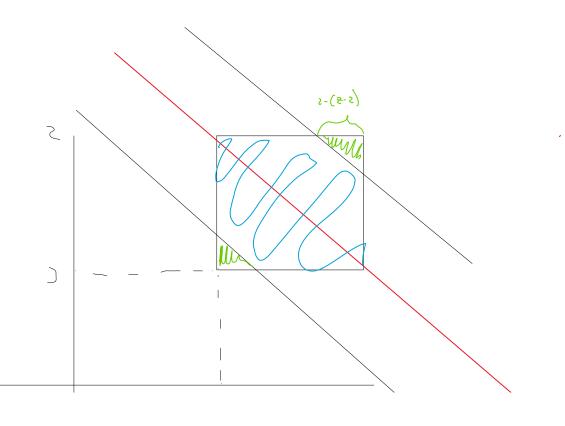
$$F_{\gamma}(y) = \begin{cases} 0 & y = 0 \\ 1 - (1 - y)^{\gamma} & 0 \leq y \leq 1 \\ y \neq 3 \end{cases}$$

$$P_{z}(z) : P(\max(x_{1}, x_{2}) + \min(x_{1}, x_{2}) \le 2)$$

$$= P(\max(x_{1}, x_{2}) + \min(x_{1}, x_{2}) < 2 | x_{1} > x_{2}) + P(\max(x_{1}, x_{2}) + \min(x_{1}, x_{2}) < 2 | x_{2} > x_{1})$$

$$= P(x_{1} + x_{2} < 2, x_{1} > x_{2}) + P(x_{1} + x_{2} < 2 | x_{2} > x_{1})$$

$$= P(x_{1} + x_{2} < 2, x_{1} > x_{2}) + P(x_{1} + x_{2} < 2 | x_{2} > x_{1})$$



$$X = \begin{cases} x_2 = 2 \\ x_2 = 2 - x_1 \end{cases} = \begin{cases} x_2 = 2 \\ x_1 = 2 - x_2 \end{cases} \begin{cases} x_2 = 2 \\ x_3 = 2 - x_3 \end{cases}$$

$$\begin{cases} x_1 = 2 - x_2 \\ x_2 = 2 - x_3 \end{cases} = \begin{cases} (2 - 2)^2 \\ 2 - 2 - 2 - x_3 \end{cases}$$

$$\frac{1}{3} \qquad \frac{2}{2}$$

$$(36:2-2 \Rightarrow (2-2)^{2}) \text{ guardo } 2 \leq 2 \leq 3$$

$$\frac{1}{7}(2) = \frac{1}{2} \cdot \frac{1}{2$$

Esercizio Blocco 3