$$\chi \sim \mu(o, \frac{1}{2}) \qquad \chi_{\mathcal{L}} \sim (\frac{1}{2}, 1)$$

$$\chi \sim \mu(o, \frac{1}{2}) \qquad \chi \in (o, \frac{1}{2})$$

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$$f_{x_{2}}(\alpha_{1}) = \begin{cases} \frac{1}{2} = z & \chi \in (\frac{1}{2}, 1) \\ c & \text{draw} \end{cases}$$

$$F_{XZ}(n_{2}) = \begin{cases} C & \mathcal{U} \leq \frac{1}{2} \\ \int_{1}^{X} dn = 2 \int_{1}^{2} dn = 2 \times -1 \\ \int_{2}^{2} \leq \mathcal{U}(c) \\ \mathcal{U} = \frac{1}{2} \leq \mathcal{U}(c) \end{cases}$$

$$() = mos(x_1,x_2) = X_2$$



$$= \begin{cases} \frac{1}{2} \leqslant w < 1 \\ \frac{1}{2} \leqslant w < 1 \end{cases}$$

$$\begin{cases} x_2 = \frac{1}{2} \\ x_1 + x_2 = 7 \end{cases} - \begin{cases} 2\ell_2 = \frac{1}{2} \\ x_1 = \ell - \frac{1}{2} \end{cases}$$

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$$\begin{cases} \chi_{1} + \chi_{1} = \lambda \\ \chi_{2} = \lambda \end{cases}$$

LATC
$$2 = \frac{1}{2} - (7-1) = -2 + \frac{3}{2}$$

$$AR(0) = \frac{(2-\frac{1}{2})^2}{2} = \frac{4z^2 - 4z + 1}{8}$$

ARROT =
$$(\frac{3}{2} - \frac{2}{2})^2 = \frac{42^2 - 127 + 9}{2}$$

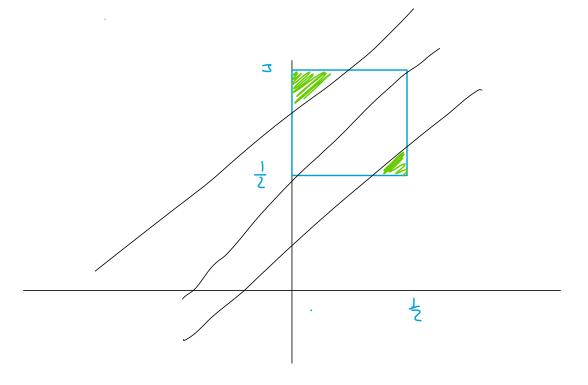
$$\frac{1}{3} \frac{4z^{2} \cdot 9t^{2}}{3} = \frac{4z^{2} \cdot 4z + 1}{2} = \frac{1}{2} \leq 2 < 1$$

$$\frac{1}{3} \left(\frac{1}{3} - \frac{4z^{2} \cdot (2z + 5)}{2}\right) = -8z^{2} + 24z - 17 = 1 \leq z < \frac{3}{2}$$

$$\ell \geqslant \frac{3}{2}$$

$$F_{\gamma}(y) = P(\gamma \leq y) = P(x_2 - x_1 \leq y)$$

"Retta
$$x_2 - x_1 = y$$
 $\rightarrow x_2 = x_1 + y$



DEFINITA TAG 1,1

$$\begin{cases} x_2 = \frac{1}{2} \\ x_2 - x_1 = y \end{cases} = 0$$

$$\begin{cases} x_2 = \frac{1}{2} \\ x_1 = \frac{1}{2} - y \end{cases} = 4$$

$$\begin{cases} x_1 = \frac{1}{2} - y \\ x_2 = \frac{1}{2} \end{cases}$$

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$$\begin{cases} \chi_2 = 1 \\ \chi_2 - \chi_1 = 2 \end{cases} = \begin{cases} \chi_2 = 1 \\ \chi_1 = 1 - 4 \end{cases}$$

$$(Are 1 - (1 - y) = y$$

Areo:
$$\frac{y^2}{2}$$

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 $\begin{cases} x_1(x_1) \oint_{X_1}(x_2) = 5 & x \in (0,1) \neq x (\frac{1}{2}, e_1) \\ 0 & \text{other} \end{cases}$
 $\begin{cases} x_1, x_2 & \text{otherwise} \\ x_1, x_2 & \text{otherwise} \end{cases}$
 $\begin{cases} x_1, x_2 & \text{otherwise} \\ x_2 & \text{otherwise} \end{cases}$

$$\frac{y \cdot y^{2}}{y} = 2y^{2} \qquad 0 \leq y \leq \frac{1}{2}$$

$$\frac{y(y)}{y} = \frac{y^{2} \cdot y^{2}}{y} = 2y^{2} \qquad 0 \leq y \leq \frac{1}{2}$$

$$\frac{y(y)}{y} = \frac{y^{2} \cdot y^{2}}{y} = 2y^{2} \qquad \frac{y^{2} \cdot y^{2}}{y} = 2y^{2} \qquad \frac{y^{2}}{y} = 2y^{2} \qquad$$