Solución Parcial Final:

$$\int_{XY} (x,y) = \begin{cases} 2 & \text{Si } Y + x \leq 1, \times >0, y > 0 \\ 0 & \text{dlc} \end{cases}$$

$$(av(XY)) = E(XY) - E(X) \cdot E(Y) - \begin{cases} (x,y) \cdot dy \\ (x,y) \cdot dy \end{cases}$$

$$= 2 \cdot \begin{cases} (x,y) \cdot dy \\ (x,y) \cdot dy \end{cases}$$

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$$= (1-y)^2 - \frac{2}{3}(1-y)^3$$

$$= E(Y) = \begin{cases} (x,y) \cdot dy \\ (x,y) \cdot dy \end{cases}$$

$$= 2 \cdot \begin{cases} (x,y) \cdot dy \\ (x,y) \cdot dy \end{cases}$$

$$= (1-x)^2 - \frac{2}{3}(1-x)^3$$

$$= E(XY) = \begin{cases} (x,y) \cdot dy \\ (x,y) \cdot dy \end{cases}$$

$$= \frac{1}{3} \cdot \begin{cases} (x,y) \cdot dy \\ (x,y) \cdot dy \end{cases}$$

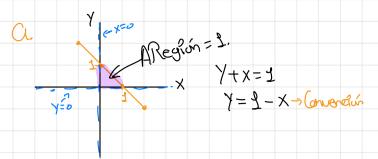
$$= \int_{-\infty}^{\infty} \frac{1-x}{x^{2}} = \int_{-\infty}^{\infty} \frac{1-x}$$

Lueyo:
$$(xy) = \frac{(1-x)^2}{z} - 2\frac{(1-x)^3}{3} + \frac{(1-x)^4}{4} - ((1-y)^2 - \frac{2}{3}(1-y)^3)$$

$$= ((1-x)^2 - \frac{2}{3}(1-x)^3)$$

Rolmagare a	= 0. # defector Hene Poisson Con E(x) = 0.7, a=0.05 n=60 DistriPoisson.
	$N = 60$ $H_0: P(X) = \underbrace{2^{X} \cdot e^{-\lambda}}_{X!}, X=0,1,2, E(X) = \lambda = 0.7$ $H_0: P(X) \neq \underbrace{2^{X} \cdot e^{-\lambda}}_{X!}$
	Num defectus Frecuencia observada
	0 32 ± ±5 Agripeir. ← 2,3 ±3
	$P_0 = P(x=0) = e^{0.7} = 0.4965$ $P_1 = P(x=1) = 0.7 \cdot e^{0.7} = 0.34755$
	$P_{2,3} = P(X) > 1 - P(X \le 2) = 1 - 6.4965 - 6.3475S = 0.35595$ $E(N_0) = 60 \cdot P_0 = 29.79$
	E(Ny)=60.P1=20.853
	F(N ₂₃) = 60. P _{2,3} = 9.357 · Est. de Prueba: 2
	$\frac{2}{2} \frac{(N_1 - E(N_1))^2}{E(N_1)} = \frac{(32 - 29.79)^2}{29.79} + \frac{(15 - 20.853)^2}{20.853}$ $+ (13 - 9.357)^2$
	9.35+
	29.79 20.852 + 43.271 0.16395 1.6428 1.44834
	= 0.16395 + j.6428 + j.41834
	= 3.225 PR 2 X2,0.05 = 5.99 RR EX7, 5,993
	1P=P(X²>3.225) = 0.1994 Como Est. &RR y IP pequeño no Vechcio Ho. Entonces el Jefe de Control Hene razón Con 2=0.05 <ip.< td=""></ip.<>

$$\frac{3}{5} f_{xy}(x,y) = \begin{cases} cx+1 & \text{st } y+x \leq 1, x > 0, y > 0 \\ 0 & \text{dlc} \end{cases}$$



2 Find C.

Usando
$$\iint_{x(x,y)} = 1$$
 Por def teremos:

$$\iint_{x+1} (x+1) dx dy = \int_{x}^{1} (\frac{x^2}{2} + \frac{1}{2}) dy$$

$$= C(\frac{3}{2}(\frac{1}{2}y)) = \frac{3}{2}(\cdot 1) = 1$$

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$$\int_{X} (x) = \int_{X} \int_{X} (x) dy$$

$$= \int_{3}^{2} x + 1 dy = \frac{2}{3} x \cdot (1 - 0) + 1 \cdot (1 - 0)$$

$$= \int_{3}^{2} x + 1 dx$$

$$= \int_{3}^{2} \frac{1}{x^{2}} + \int_{X} = \frac{1}{3} + 1 = \frac{4}{3}$$

4. Cl. X Bemaill? Con
$$P = \frac{1}{3}$$
, $\frac{1}{2} \exp con \Re = \frac{3}{2}$, $\frac{1}{2} \operatorname{Poisson} \Re = \frac{2}{2}$

$$U = \frac{1}{2} \times \frac{1}{2} + \frac{1}{2} \times \frac{1}{2} \times$$

$$FGM(22+3) = E(e^{S(22+3)})$$

$$= E(e^{S(22+3)}) \cdot E(e^{S(3)})$$

$$= e^{S(22+3)}$$

$$= e^{S(22+3)}$$

$$= e^{S(22+3)}$$

$$= e^{S(22+3)}$$

C
$$F6M(Y+2) = E(e^{S(Y+2)})$$

= $E(e^{SY}) \cdot E(e^{S^2})$
= $e^{S(Y+2)}$