$$= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x,y) dx dy$$

| (1)
$$F_{X}(X) = F(X, +\infty)$$

= $\lim_{y \to +\infty} F(X, y)$
= $\lim_{y \to +\infty} f(X, y)$

12)
$$P_{1}^{1}-1.55X<2.5, -0.55Y<1.5$$
= $F(2.5, 1.5)-FHS, 45)$
= $0.75-0$
= 0.75

(3)
$$P \left\{ \frac{1}{25} \times 0.35 \times 1.5 \times 0.5 + 0.5 \times 1.5 \times 0.5 \times 1.5 \times 0.5 \times 0.5 \times 1.5 \times 0.5 \times 0$$

30)
$$P(Y=1) = P(X=0, Y=1) + P(X=1, Y=1)$$

$$= 0.24 + 0.12$$

$$= 0.36$$

$$P(X=0)Y=1) = \frac{P(X=0, Y=1)}{P(Y=1)} = \frac{224}{0.36} = \frac{2}{3}$$

$$P(X=1|Y=1) = \frac{P(X=0, Y=1)}{P(Y=1)} = \frac{3}{3}$$

X	0	
PIXIFIL	2/2	1
1/1/1	3	

3.4.

1. u)
$$SD = \int_{0}^{1} \int_{0}^{1} -x^{2} dx = \frac{1}{3}$$

$$\int_{0}^{1} \int_{0}^{1} \int_{0$$

$$f_{X}(X) = \int_{-\infty}^{+\infty} f(x,y) dy$$

$$= \int_{-\infty}^{+\infty} f(x,y) dx$$

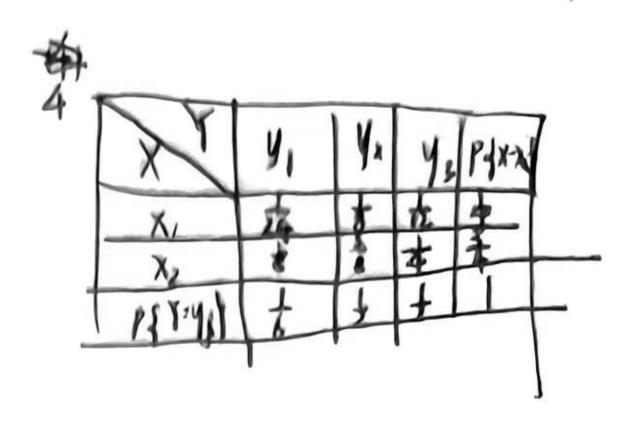
$$f(x,y) = \frac{1}{50} = 1$$

$$f(x,$$

小太

3.5 2, 1) fx(x)= jx 1 dy= 1-1x, == 1-2x fx14)= [4 1dx = 24, 0<4<1

(2) tx(X)-fr(y) = [(1-1X])24, tx(4, ocycl) :.不互相批



5, = 11x, 41 = 1 (*2) = a(x+y) dy dx = 5 a 5a=€ TX(X) · fry) = = x (2+2 1-49) . 05x = 2,0 84 8 不互相打立 1 174, X314 === Star fixy)dxdy P1731 X21 = 李-生

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