2016. 3 G (3) (3)3 PLA(B)=1, OCPA)<1, OCPCB)<1, =) P(AB)=P(B)  $P(B|A) = \frac{P(BA)}{P(A)} = \frac{P(AUB)}{P(A)} = \frac{1 - P(A) - P(B) + P(AB)}{1 - P(A)} = 1$ P(x>6|x>3) = P(X>3)又由例2.28.  $P(x>3)=8^3$  (1-P)3 X2 P(6), Y|x=n2 B(n, 3), メルト(6), 11/2 P(6×3) P(2). 基似于例3.2.6 Po 解題世報, 引得 ドルト(6×3) P(2).  $= (1) \int_{X} (x) = \int_{0}^{+\infty} \int_{0}^{+\infty} x \cdot y \cdot dy = \int_{0}^{+\infty} 2 dy = 2(+x), \quad 0 < x < 1,$   $\int_{Y} (y) = \int_{0}^{+\infty} \int_{0}^{+\infty} x \cdot y \cdot dx = \int_{0}^{+\infty} 2 dx = 2(+y), \quad 0 < y < 1,$   $G = \int_{0}^{+\infty} y \cdot dx = \int_{0}^{+\infty} x \cdot y \cdot dx = \int_{0}^{+\infty} 2 dx = 2(+y), \quad 0 < y < 1,$   $G = \int_{0}^{+\infty} y \cdot dx = \int_{0}^{+\infty} x \cdot y \cdot dx = \int_{0}^{+\infty} 2 dx = 2(+y), \quad 0 < y < 1,$ e) 2= x : (0, tx) 当tno, F2H)= P(Z=t)= P(X=t)= f(x,y) dydx = fti ftx 2dydx + fti so 2dydx 当tco, Fett)=0j = John 2txdx+ Jth 2Ux) dx = t  $f_2(t) = \frac{dF_2(t)}{dt} = \begin{cases} 0 & \text{if } t \\ 1 + t \end{cases}$ 没好心为(功,为) (X-20) + (Y-20)2+ (2-20)2=1 E(X-20) = E(Y-20) = E(Y-20)= 由对创性, $E(X-X)^2=$ 言,又 $X\sim U(X-1,X+1)$ , $E(X)=X_0$ , D1 D(x) = E(x-xb)=3

$$= .11) \int_{10}^{+\infty} f(x) dx = \int_{1}^{0} a \, dx + \int_{0}^{2} b \, dx = a + 2b = 1$$

$$= (x) = \int_{10}^{+\infty} x \, f(x) \, dx = \int_{1}^{0} a \, x \, dx + \int_{0}^{2} b \, x \, dx = a + 2b = 1$$

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$$= \int_{10}^{+\infty} a \, dx + \int_{0}^{+\infty} a \, dx + \int_{0}^{+\infty} b \, x \, dx + \int_{0}^{+\infty} a \, x \, dx + \int_{0}^{+\infty}$$

$$P(X=n, Y=m) = P \stackrel{g}{\in}^{n+1} P \stackrel{g}{\in}^{n+1} P \stackrel{g}{\otimes}^{m-1} = (m-n-1) \stackrel{g}{\circ}^{3} g \stackrel{m-3}{\longrightarrow} m > n+2$$

$$P(X=n, Y=m) = P \stackrel{g}{\otimes}^{n+1} P \stackrel{g}{\otimes}^{n+1} = p^{3} g \stackrel{m-3}{\longrightarrow} (m-n-1) \stackrel{g}{\circ}^{3} g \stackrel{m-3}{\longrightarrow} = p^{3} g \stackrel{m-3}{\longrightarrow} (m-n-1) \stackrel{g}{\circ}^{3} g \stackrel{m-3}{\longrightarrow} = p^{3} g \stackrel{m-3}{\longrightarrow} (m-n-1) \stackrel{g}{\otimes}^{3} g \stackrel{m-3}{\longrightarrow} (m-n-1) \stackrel{g}{\otimes}^{3} g \stackrel{m-3}{\longrightarrow} (m-n-1) \stackrel{g}{\longrightarrow} (m-n-1) \stackrel{g}$$

St. (1), 
$$f_{\mathcal{Q}}(t)=0$$
;  
St. (1),  $f_{\mathcal{Q}}(t)=0$ ;  
St. (1),  $f_{\mathcal{Q}}(t)=P(XY\leq t)=\int \int f(x)dydx=\int \overline{f}(x)dydx=\int \overline{f}(x)dydx$   
 $=\int_{-\infty}^{\infty}\int \dot{z} zz^{2}ydydx+\int_{\mathcal{R}}\int \dot{z} zz^{2}ydydx$   
 $g_{z}(t)=\int \int dydx+\int \partial zz^{2}ydydx+\int \partial zz^{2}ydydx$   
 $g_{z}(t)=\int \partial z z^{2}ydydx+\int \partial zz^{2}ydydx$   
 $g_{z}(t)=\int \partial z z^{2}ydydx+\int \partial zz^{2}ydydx$ 

$$f_{2}(t) = \int_{0}^{\infty} \frac{1}{t^{2}} dt + \int_{0}^{\infty} \frac{1}{t^{2}} dt = \int_{0}^{\infty} \frac{1}{t^{2}} dt$$

B= Przst3

$$= \int_0^1 4x^2 \, y^3 |_0^x dx = \int_0^1 4x^5 dx = \frac{4}{5}$$

t. 
$$E(X) = \frac{-9+0}{2} = 0$$
  $D(X) = \frac{40^2}{12} = \frac{0^2}{3}$ 

$$E(X') = D(X) + (E(X))^2 = \frac{0^2}{3}$$

$$\delta = E(x^2) = A_2, \qquad \delta = BA_2 = \sqrt{3} \frac{1}{2} \times \frac{1}{2}$$

$$E(\hat{\theta}^2) = E(\frac{3}{3} \frac{\hat{\Sigma}}{\hat{\Sigma}} X^2) = 3E(X^2) = 3 \cdot \frac{\theta^2}{3} = \theta^2$$

$$\left[\frac{(m)5^{2}}{(k_{2}^{2}(m))}, \frac{(m)5^{2}}{(k_{2}^{2}(m))}\right], \left[\frac{24\times2.5^{2}}{39.364}, \frac{24\times2.5^{2}}{12.401}\right] = [3.81, 12.10]$$