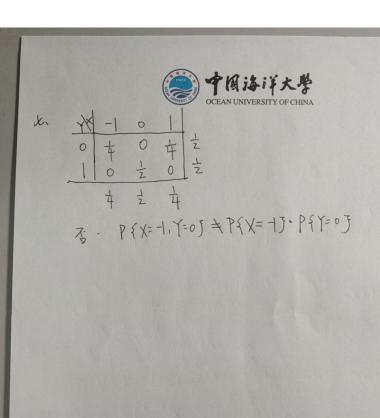
第三章 习题 4 岳宇轩 19020011038 --1、地南中2、草草3.1=04.是八土6、三5 =. $(.D \times .C \times .A \times ... \times ...$ f(X, Y)= f(x) fx(Y) => X和了独立 2. g(X)= ItanX 与f(Y)=1-2e 均为を集画数 : StanX与上で指的格立 四、1、1本のto-fky)dxdy= (。[(xc(Xty)dy]dx=]。[c/c/(Xty)dic(Xty)]dx $= \int_{0}^{1/2} (x^{2} dx = \frac{1}{2} (= | =) (= 2)$ $= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} (x) dx = \int_{0}^{\infty} e^{-x} dx = 1 - e^{-1}$ $= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x,y) dx dy = \int_{0}^{\infty} \left[\int_{0}^{\infty} (x^{2} + cxy) dy \right] dx = \int_{0}^{\infty} \frac{1}{2cx} (x^{2} + cxy)^{2} dx$ $= \int_{0}^{\infty} \frac{1}{2cx} + (x^{2} + cx) dx = \int_{0}^{\infty} \frac{1}{2x} (x + c) dx = \frac{1}{3} + c = 0$ $= \int_{0}^{\infty} \frac{1}{2cx} + (x^{2} + cx) dx = \int_{0}^{\infty} \frac{1}{2x} (x + c) dx = \frac{1}{3} + c = 0$ fx(x) = for f(xy) dy = for x + 3xy) dy = x for dy + 3xfor y dy = 2x + 3x (0 ≤ x ≤ 1)

fy (y) = for f(x, y) dx = for x dx + 3yfor x dx = 3 + 6y (0 ≤ y ≤ 2)

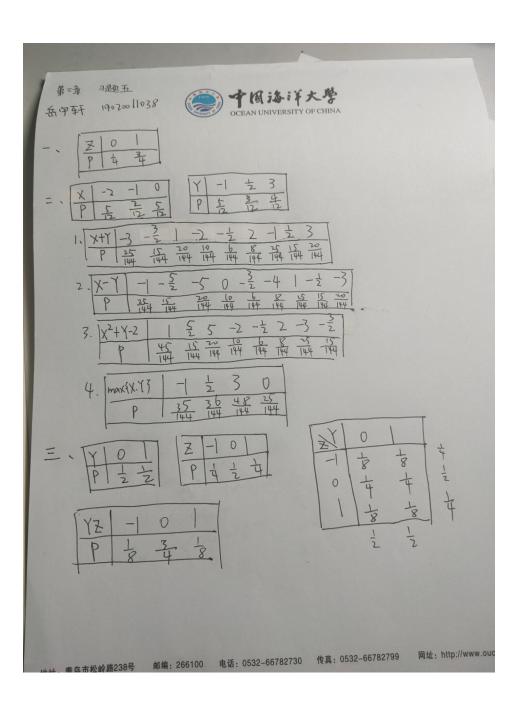
fy (y) = f(x, y) = f(x,4) = f(X) f(y) : x 与个不独立

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$$\begin{array}{lll}
- & \mathcal{N}(0, 25) \\
= & \mathcal{R} \\
= & \mathcal{R}_{2}(2) = \int_{\infty}^{\infty} \int_{X} (x) \int_{Y} (z-x) dx = \int_{z-1}^{z+1} \frac{1}{\sqrt{z}} e^{-\frac{x^{2}}{z}} \frac{1}{z} dx = \frac{1}{z} [\phi(z+1) - \phi(z-1)] \\
2 & \mathcal{R}_{2}(z) = \int_{\infty}^{+\infty} \int_{X} (x) \int_{Y} (z-x) dx = \int_{z-1}^{z} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \frac{1}{z} dx = \frac{1}{z} \int_{0}^{z} \frac{1}{\sqrt{z}} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \\
3 & \mathcal{R}_{2}(z) = \int_{0}^{+\infty} \int_{X} (x) \int_{X} (z-x) dx = \int_{z-1}^{z} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \int_{0}^{z} \frac{1}{\sqrt{z}} \frac{1}{\sqrt{z}} dx = \int_{0}^{z} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \int_{0}^{z} \frac{1}{\sqrt{z}} \frac{1}{\sqrt{z}} dx = \int_{0}^{z} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \int_{0}^{z} \frac{1}{\sqrt{z}} \frac{1}{\sqrt{z}} dz = \int_{0}^{z} \frac{1}{\sqrt{z}} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \int_{0}^{z} \frac{1}{\sqrt{z}} \frac{1}{\sqrt{z}} dz = \int_{0}^{z} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \int_{0}^{z} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \int_{0}^{z} \frac{1}{\sqrt{z}} \frac{1}{\sqrt{z}} dz = \int_{0}^{z} \frac{1}{\sqrt{z}} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} \int_{0}^{z} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} dz = \int_{0}^{z} \frac{1}{\sqrt{z}} e^{-\frac{z}{z}} e^{-\frac{z}{$$

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 $\begin{array}{lll}
& \exists 1. & P\{Z \leq z\} = P\{XYY \leq z\} = \iint_{Z = z}^{XYY} f(X,Y) dX dY \\
& \Rightarrow z \neq 0
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