一、被统统

教就 弘

例1、X.Y独立 NN(0,1) ポス=X+Y 林岡平宝座 $f_{z(z)} = \int_{-\infty}^{+\infty} f_{x(z-y)} f_{y(y)} dy = \int_{-\infty}^{+\infty} \int_{\overline{D}}^{+\infty} e^{-\frac{(z-y)^2}{2}} \int_{\overline{D}}^{+\infty} e^{-\frac{y^2}{2}} dy = \frac{1}{2\pi} \int_{-\infty}^{+\infty} e^{-\frac{(z-y)^2}{2}} dy$ $e^{-5+2y-\frac{2}{3}} = e^{-\frac{1}{3}(y-\frac{2}{3})^{\frac{3}{3}}} = e^{-\frac{1}$

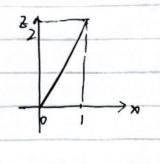
 $\int_{Z(Z)}^{Z} = \frac{1}{\sqrt{2}} \cdot e^{-\frac{Z^2}{4}} \int_{-\infty}^{+\infty} \frac{1}{\sqrt{2}} e^{-\frac{Z}{4}} \int_{-\infty}^{+\infty} e^{-\frac{Z}{4}} \int_{-\infty}^{+\infty} e^{-\frac{Z^2}{4}} \int_{-\infty}^{+\infty} e^{-\frac{Z^2$

fr(r) = \int_{-\infty} f_{\text{r}}(r) \int_{\text{f}_2}(\mathbb{E}^{\text{r}-r_1}) dr. \\ \left(\text{Deresto}, \int_{\text{r}=20}^{\text{to}}, \int_{\text{r}=10}^{\text{to}} \frac{10-r_1}{50} \cdot \frac{(10-r_1 r_1)}{50} dr. \\ \left(\text{To result} \cdot \frac{10-r_1}{50} \cdot \frac{10

作图分析: { OSTISIO | MOSTIST | (10,0) |

线性组合 弘

fz(z)= [f(x,2x-2) dx 0<X<1, 0<2X-2<2X=> 270, X>= 当0~又~2时, fixyx fz(z)= 」 1 dx = 1-豆 练上, f2(Z)= {1-3,0×Z<2 0.其他



用公式沿途增加的系数

 $F_{z}(Z) = P\{Z \leq Z\} = P\{2X - Y \leq Z\} = P\{Y \geq 2X - Z\}$ $\exists Z = 0 \exists J, P\{Y \geq 2X - Z\} = 0; \exists Z \geq 2 \exists J, P\{Y \geq 2X - Z\} = 1$ 名のZ<2町、P{Y=2X-Z}= SIIdxdy=ダーシ(1-ラア



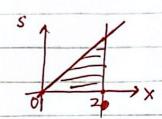


缓概统
$$f_{Z(Z)} = F_{Z(Z)}^{\prime} = \begin{cases} -\frac{1}{2}, & \text{or } z < 2 \\ 0, \text{ the} \end{cases}$$

Z=XY 3L

$$f_{S}(S) = \int_{-\infty}^{\infty} |x| f(X, \frac{1}{2}) dx$$

 $f_{(X,Y)} = \begin{cases} \frac{1}{2}, 0 \le x \le 2, 0 \le \frac{1}{2} \le 1 \Rightarrow x \le x, x \ge 0 \end{cases}$



画 S-X 国可以附近现在 范围错误

13)2、X、Y分别的从入小入工指数分布 / 就之= 芒…

X=ZY, $f_{Z}(Z)=\int_{-\infty}^{+\infty}f_{X}(ZY)f_{Y}(Y)dy$

$$\int \chi(x) = \lambda_1 e^{-\lambda_1 x}, \quad \int \chi(y) = \lambda_2 e^{-\lambda_2 y}$$

$$\int Z(z) = \lambda_1 \lambda_2 \int_{-\infty}^{+\infty} y e^{-\lambda_1 z} y^{-\lambda_2 y} dy = \frac{\lambda_1 \lambda_2 \cdot \left(\frac{-1}{\lambda_1 z} + \lambda_2\right) y}{2} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{\lambda_1 z + \lambda_2} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda_2) y} \int_{0}^{+\infty} \frac{\lambda_1 \lambda_2}{(\lambda_1 z + \lambda_2)} e^{-(\lambda_1 z + \lambda$$

一维SB数学期望 3L

倒了。车站8:00~9:00和9:00~10:00各有车到站 的问练正

8:10	8:30	8:50	
9:10	9:30	9:50	
L	3	2	
6	6	6	

8:20到站在等平时间期望?

-		10	30	,	,	1	
_	X	選	多	50	70	90	E111- 1777
•	P	3	7	4	3	2	LV1- 21.22
		6	6	36	361	36	