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- 梅安縣
二、送择题
1. B
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三. 解(1) 沒A=j产品为面格品 B= j产品检测的合格了 生积率公文 P(B)=P(B|A)+P(B|A)=0-

PLB)=P(B|A)P(A)+P(B|A)P(A)=0.96x0.98+0.04x0.05=0.9428

(2)贝叶斯公司

 $P(A|B) = \frac{P(A|B)}{P(B)} = \frac{P(B|A)P(A)}{P(B)} = \frac{0.96\times0.98}{0.9428} = 0.9979$ 

四. 解·(1) F(+00)=A=1 F (0)= A+B=0

- (2) P{X < 2} = F(2) = 1- e-2x
- は) 当x>o. fx)=Fix)=ハe-ハ× 当x < 0. fox > 0. 其他·

五.前:由于fz(主)= fix, z-x)dx= fix fx(x)fy(z-x)dx

(X,Y)的联合概率密度为fxx,y)= 100-20(00-40) 00-2000 00

由しのくなくしのことなくしのことなくしのかりなくまくりか

食解:(1) 
$$f_{x}(x) = \int_{-\infty}^{+\infty} f_{x}, y dy = \int_{-\infty}^{2} \frac{x+y}{8} dy = 3 + \frac{x+y}{8} dy = 3 + \frac{x+y}{4}$$
,  $\frac{x+y}{4}$ ,

由于我f(x,y) +fx(x)fy(y). 故x.Y不相互独立

(2) 
$$f_{Y|X}(y|X) = \frac{f(x,y)}{f_X(x)} = \begin{cases} \frac{x+y}{2(x+t)}, & 0 < x < 2, 0 < y < 2 \\ 0, & 4 \text{th}. \end{cases}$$

(3) 
$$\frac{1}{E(x)} = \int_{-\infty}^{+\infty} x \int_{x} \frac{1}{(x)} \frac{1}{(x$$

对抗意结定 x co~x = ).在 X= x 年午, fy|x(y|x)= fx(x)

\$ 0 < y < 2, fy|x(y|x)= (x+1)/4 = x+y

(x+y)/4 =

$$E(x) = \int_{-\infty}^{+\infty} x f_{x}(x) dx = \int_{0}^{2} x \cdot \frac{x \eta}{4} dx = \frac{1}{6}$$

$$E(y) = \int_{-\infty}^{+\infty} y f_{y}(y) dy = \int_{0}^{2} y \cdot \frac{y \eta}{4} dy = \frac{1}{6}$$

(4) 
$$E(x^2) = \int_{-\infty}^{+\infty} x^2 f_x(x) dx = \int_{-\infty}^{\infty} x^2 \cdot \frac{x}{4} dx = \frac{5}{3}$$
  
 $D(x) = E(x^2) - [E(x)]^2 = \frac{5}{3} - \frac{1}{6}x^2 = \frac{11}{36}$ 

二. 府: 要求在显著性水平an.05下, 检验正态总体 6 的假设 支持的17为备择假设设

Ho: 0 = 10 H1: 0 > 0. H0: 0 > 05=10 H1: 0 < 05=1

年用 X' 检验法, 取检验统计量为 X'= (n-1) s'~ X'(n-1)

八、斛、山)从: $E(X) = \int_{0}^{+\infty} x \frac{1}{\theta \int_{X}^{+\infty}} e^{-\frac{2\pi}{\theta}} dx = -\frac{\pi}{\theta} e^{-\frac{2\pi}{\theta}} \Big|_{0}^{+\infty} = \frac{\theta}{\theta}$ 解得  $\theta = \int_{X}^{+\infty} \mathcal{N}_{+} = \int_{\mathbb{R}}^{+\infty} E(X)$   $\xi E(X) = \overline{X} \quad , \quad \xi \theta \text{ in } \forall \text{is } \text{if } \forall \text{if } \theta = \int_{\mathbb{R}}^{+\infty} \overline{X}_{+}^{+\infty} (x) = (\frac{2}{\theta \int_{X}^{+\infty}})^{n} e^{-\frac{2\pi}{\theta}} \frac{x^{2}}{\lambda^{2}}$   $(2) \text{ (MX 函数为 } L(\theta) = \inf_{\mathbb{R}}^{+\infty} f(X_{+}) = (\frac{2}{\theta \int_{X}^{+\infty}})^{n} e^{-\frac{2\pi}{\theta}} \frac{x^{2}}{\lambda^{2}}$   $\text{ By } \frac{1}{\theta} : \text{ (AL(\theta))} = n(n2 - n(n\theta - n(n)) + \frac{1}{\theta} + \frac{2\pi}{\theta} \frac{x^{2}}{\lambda^{2}} = 0$   $\text{ 解得 } : \theta = \int_{\mathbb{R}}^{+\infty} \frac{1}{\theta} \frac{x^{2}}{\lambda^{2}} + \frac{1}{\theta} \frac{x^{2}}{\lambda^{2}} \frac{x^{2}}{\lambda^{2}} = 0$   $\text{ 解得 } : \theta = \int_{\mathbb{R}}^{+\infty} \frac{1}{\theta} \frac{x^{2}}{\lambda^{2}} + \frac{1}{\theta} \frac{x^{2}}{\lambda^{2}} \frac{x^{2}}{\lambda^{2}} = 0$ 

九. 计算机网络的建立需要满足-定用数据传输规律. 而概率论 帮助我们更知地理解这些规律,更加有效地 改善网络,并确保手统的司靠性.