17、三为又去经年日产、可作正交通对指化 · 日 A 球使祭 A ZAT = D D为又搬在时, - dig(d,, dz--dn) · Jast, Year No, D) , Couly, 1/5/=0 (1+1) : 「豆柚加工、且のど~ん(0,di) $\begin{pmatrix} 8 \\ (1) \\ (23) \end{pmatrix} \begin{pmatrix} 3 \\ 2 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} = \begin{pmatrix} 11 \\ 113 \\ 113 \end{pmatrix}$ 12) (x)~ N((8), (1) 1/3) 光·イド、セガエも分布、其内室为: 8+ 学× 歩× (メーフ)=8+ (パーフ) 1/2+1/2=(11/(1/2)= #:E(1/+1/2)=(1.1)(8)=15 (3) EXXXXX X_/X, ~N(Z+ 4 X/X(X-1), 1- 4)2X/) =. E(X2/X,)-2+ &(X,-1) D(X2/4X/= 25 (4, 包然四二者为高期后有效尽需证明二者协方差为0 E(X2-E(X1X1))=EX2- E(E(X1X1))=EX2- EX2= E(X, X, -XE(X, | X,)) = EX, X, - E(X, (4 = (X, -1)) = (X, X, + EX, EX, - E(X, -2E)X,

· CoulX, X2-E(X2/X,)=0 ...5k2.

20.(4)/火星/线(Xt., Xt. ··· Xt.) 下层从高基价后布 - Cove 125 (Xt, ta, Xt, ta, Xt, ta) THONT 由ti,chs他主任:EXi为发致 : EXOXEN = EXELTA Cou (Xt, -, Xt, 1= Cou (Xt,+a, Xt, +a) 由の角が任意性 Cou [Xt, Xt, 125 titz有美 (克利生):考定(Xt,ta, Xt,ta,··· Xtnta) 联络分布的特征上数。 P(0)= exp(10) [1-10] [5) 而加与《天美、题、王中气素为CovCKtita, Xg+a/只与lti-与杨美 1.4(0))5 0天美 · Z f (4 ½ a, (xt, xt, Xt, Xt, (a)) = (Xt to, Xt, to) - (B) 第二者有担同的联合分类 (b) [Ut = e = EXade = 0 (X X X - EXSX Coulds, Ut) = E Us Due = le - = E Keas - Xear

 $Cov(U_S, U_t) = \int_{-\infty}^{\infty} \frac{ds}{ds} = \int_{-$

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$$= \min(st1, t+1) + \min(s,t) - \min(bs, t+1) - \min(t, s+1)$$

$$= \frac{1}{2}(|s-t-1|+|s-t+1|-2|s,-t|)$$

(到海鱼是了! $-:(\tilde{x}) \rightarrow (A) \times (B)$ $\frac{1}{2} - \frac{1}{2} - \frac{1}{2} \left(\frac{A Z A^7}{2} \right) \left(\frac{A Z A^7}{2}$ · Y、Z和互独色(三) Y的分至与Z的分配社之 (=) C & AT = O $= (11 \times 20 \times 2 \times 3 \times 2 \times 1) \begin{pmatrix} B_1 \\ B_2 \\ B_3 \end{pmatrix} \sim N(0, 18)$ Px (0)= e-90° 6 FEX=0 1)X=18 (2) 10 XITD EXT = 0 COV (X, Y)=0(=> EXY=0 EXY= E(3/142/2-13,)(4), +13, 1-2(+5= (3) E(X/B2=1) = 3E(B1/B2=1)+2-E(B1/B2=1)

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$$EX^{a} = I \quad EY^{a} = I$$

$$EX^{a} = J \quad EY^{a} = J$$

$$f(PX) = DY^{a} = J$$

$$E(Y^{a} = E(E(X^{a}Y^{a}|Y)))$$

$$= E(Y^{a} = E(X^{a}Y^{a}|Y))$$

$$= E(Y^{a} = E(X^{a}|Y))$$

$$= E(X^{a} = I^{a})$$

$$= I^{a} = I^{a}$$

$$= I^{a}$$