P(1x-xx) < K6x) = P(-K6x < x-xx(YCx) $= \left(-\frac{X - X \times X}{X} - \frac{X \times X}{X} - \frac{X$ = (ZCK)- (ZCK) = (ZCK) - (1- (ZCK)) $= Y f(z \in K) - 1 = Y \phi_{(K)} - 1$ $|C = Y \longrightarrow Y \emptyset(Y) - 1 = YX 0/99 1 = 0/99 VE$ $|C = Y \longrightarrow Y \emptyset(E) - 1 = YX 0/999 - 1 = 0/999 A$ 18 وا حال بالستفاده از نامساوی حیسف این هنادیر را محاسبی لنم: P(1X-x) < K(x) = P(-x6x < x-xx < k6x) = | (Mx-K6x2X2Mx+K6x) > 1- 1x $\begin{cases} K=1 \longrightarrow \begin{cases} > 1-1=0 \longrightarrow \begin{cases} > 0 \end{cases} \\ X=Y \longrightarrow \begin{cases} > 1-\frac{1}{Y}=\frac{W}{E} \longrightarrow \begin{cases} > 0/Va \end{cases} \end{cases}$ omid $K = V \rightarrow P \rightarrow 1 - 1 = 1 \rightarrow P \rightarrow 0/11/1 \rightarrow 0$

Year. Month. Date.

1 (los cel - mel) [3

مقاریر بیست آمده در قست اول بااستفاده از توزیج برمال دربایزه نامساوی حبیسف قراری گزفت و آن ها را تأسی کند.

5 Y lew - les o

 $E[X] = e \times \frac{|X'-1|}{|X'|} + |X| \times \frac{1}{|X'|} + (-K) \times \frac{1}{|X'|} = 0$ (id) 11

-> TKX = 0

 $E(x_{L}) = 0_{L} \times \frac{1}{10_{L}} + (-10_{L})_{L} \times \frac{1}{10_{L}} = \frac{1}{10_{L}} + \frac{1}{10_{L}} = \frac{1}{10_{L}} =$

 $C_{X}^{Y} = E_{(X^{\prime})} - (E_{(X)})^{Y} = 1 - o^{Y} = 1$ $C_{X}^{Y} = 1$

(1X-xx) < K(x) = (-K6<x-xx< K6x)

= P(X-KKX X < K6x+Xx) =0 P(-KXXXX)

(le roien, ml)

= micode in a columbi ; o de-ull uco $P = 1 - \frac{1}{1c^{r}}$ $P = 1 - \frac{1}{1c^{r}}$ - - ma (= |- 1 (= is) of ser (solution) 12 5 P our 19 16 Good + 1/ > 1/0 1/3 (X+ 1/ < 100 | X+1/ > 1/0) W=X+Y = W~ N(xx+xy) (x+xy)

(Wezwers)

(W)(Vo)

omid 20+30

Chimas ? 17: ankledello Mololdol I don et mell of 8 P(NOCWCYOO) (ill white) ((W<100 | W> (V0) = -(W)Ve) ((WCYOO) - P(WC/Vd) 1- P(WCWe) W~N(xx+xy/(x+6))=N(1/0,100) $= \frac{\left(\frac{W-1}{0} < \frac{Y \cdot o - 1}{0}\right) - \left(\frac{W-1}{0} < \frac{V \cdot o - 1}{0}\right)^{12}}{\left(\frac{W-1}{0} < \frac{W-1}{0}\right)^{12}}$ 1- P(W-1/0 - 1/0) Ø(x) - Ø(-1) 1-P(z(-1)) 1-P(-1) $= P(Y) - (1 - \phi(Y)) + \phi(Y) + \phi(Y) - 1$

1-(1-P(1)) = P(1) 0/9VVY + 0/1/5/12-1

= 0/1/10 = 0/9VYA 91614

(Idward - Imiences)

Year. Month. Date. د از ستمم استفاده ی نسیر خ (in the) = 1 - (Coliens in) - (corrier) - (corrier) - (corrier) - (corrier) / (corrier $P(W \subset |\Lambda_0) = \left(\frac{W - |\Lambda_0|}{|Q|} \geq |\Lambda_0 - |\Lambda_0|\right) = P(z \leq 0) = \frac{1}{V},$ $| \frac{10}{\sqrt{10}} = | \frac{10}{\sqrt{10}} \left(\frac{1}{\sqrt{10}} \right) \times \left(\frac{1}{\sqrt{10}} \right) = | \frac{10}{\sqrt{10}} =$ -> Colles = 1 - 14 - 14 - 14 - 14 - 14 - 14 . 2 Je E [2]= × 1/ july 1/2 Je 2 Je 19 () y = 1) b lin & E(2) = x > E(2x+by)=x 21 -> a E(x)+bE(y) = x ->(a+b)x=x -> meb = | julipacitude by a rely 25 اداس جول رمینمنیم omid 20-30

Obselve of 1100000 250000 Year. Month. Date. a+b= | soliza of less lists wind of the solization of the solizati i cre me sind est Var(z) Var (z) = Var (ax+by) iles on Var (x) + 6 Var (y) -> VAY (2)= 25 4 by 67 6=1-0 VAY(2)=25 67+(1-1) 6710 الم حال إن عالي حسيق مى ليرم نسب به ٤ (برابره قراره م) dvar(z) = +a(x,+x,)-x,=0 1=1-a=6,4-6,4 = 6,4-6,4 =

omid 20+30