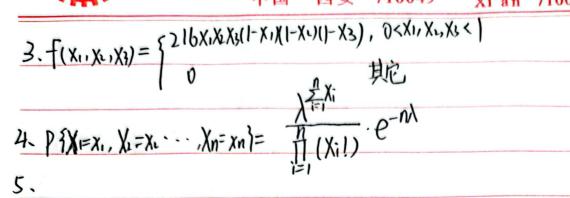


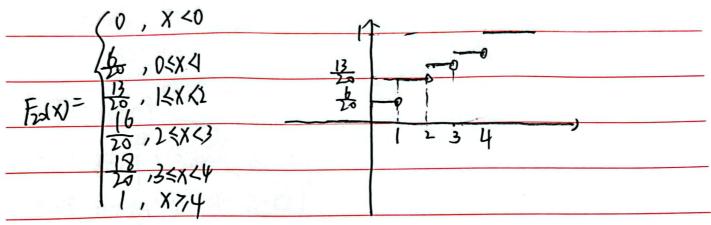
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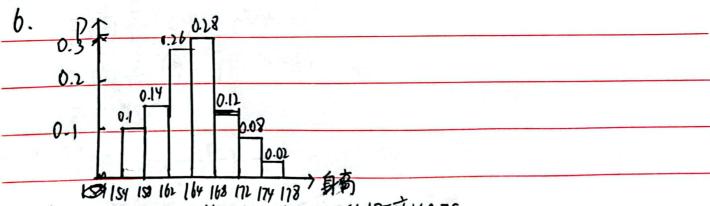
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报外做单点 品品 品 公





根据直方图,估计存在160~175之间的概率的.75.

$$80X = \frac{1}{10} \frac{m_i x_i^*}{m_i} = \frac{1}{10} \frac{m_i x_i^*}{m_i}$$



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12). Xi = 60 (1X8+ 3X40+ 6X10 +26X1) = 4 5= 59 [(1-4), x8+13-4, x40+ (6-4), x10+(26-4), x1=18.983 S=NS=4:357. 9. 11). Yi= xi-a , Xi=CYi ta 产力的 = 1 1 1 1 1 9 = ch = Xi @-a = 5x-a $\overline{X} = \alpha + c\overline{Y}$ $Sx^2 = \frac{1}{n-1}\sum_{i=1}^{n}(x_i - x)^2$ = 元是(cyita-a-cr)) = 前旨(cyi-cY) = C' (91- Y) = C1 DSY2 E(Y)=E(ZX-8) = = E(x) - == $E(S'Y) = \frac{1}{C'}E(SX') = \frac{6^2}{C'}$ 10. 设两次取得的样本均值的分别为了...X. 易知从底到独立同分布不(9,号),F(X)

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P= \int_{\infty}^{\top} F(xt 0.6) - F(x-0.6) dx = 0.6826.
1). [1).
E(X) 电抗 Xi)
$=\frac{1}{n}\sum_{i=1}^{n}E(X_{i})$
= mp
$D(x) = D(x) = \frac{1}{2} x_i$
$= \frac{1}{100} p(\frac{9}{100} \chi_i)$
$= \frac{1}{n^2} \sum_{i=1}^{n} D(X_i)$
= n - nmp(1-p) = mp(1-p)
$E(S')=E(n-1) + \frac{2^n}{n}(X_i-X_i)^2$
= 前 E(毫, Xi²-nX²)
$=\frac{1}{n-1}\left[\frac{1}{2}E(Xi)-nE(\bar{X}')\right]$
- n- (n(u-16) - n
$= \frac{1}{n-1} \left[n(m^2 p^2 + m^2 p^2 (1-p)^2) - n(m^2 p^2 + \frac{mp(1-p)}{n} \right]$
$= \frac{1}{n-1} \cdot (n-1)$. $mp(1-p)$
$=mp(\vdash p)$
(2). $D(X) = E(X) = \lambda$, $D(X) = \frac{D(X)}{n} = \lambda$, $E(S^2) = D(X) = \lambda$
(3) $\cdot E(\overline{X}) = E(X) = \frac{\alpha_1 + b}{2}, D(\overline{X}) = \frac{D(X)}{12} = \frac{(b-a)^2}{12n}, E(S^2) = D(X) = \frac{(b-a)^2}{12}$
(4). $E(X) = E(X) = U$, $D(X) = \frac{D(X)}{M} = \frac{G^2}{M}$, $E(S^2) = D(X) = G^2$
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H.E. 310040

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== Xi - nxn + nxn == Xi' - 2anxn + na'

左=右

1275= Xn+ ntl (Xntl-Xn)

 $= \frac{1}{2} + \frac{1}{1} + \frac{$

= Xn+ n+1 () Xi - n+1 = Xi)

= Xn + Xn+1 - Xn

=Xn+1 注

易知: Xn= 対(Nt) Xnt1 -Xnt) O

Xn11 -Xn= ntl (Xntl - Xntl) 0

10 = 17 Sn' + n+1 (Xn+1-Xn)

= 1/2/X1 TO Xn' + 1/1 (Xn+1- Xn)

代》 0.0%

原於方式Xi' 一方(Ntl Xntl - Xntl) + 内tl Q(n+l) (Xntl - Xntl)

 $=\frac{1}{12}Xi' - \frac{1}{12}(N+1)'Xn+1'-2(N+1)Xn+1 Xn+1 + Xn+1') + \frac{1}{12}(Xn+1'-2)Xn+1Xn+1$

= 7/2 X; - 1/1/(n+1-1) Xn+1 + n+1-1 Xn+1

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= 1 = Xi2 - 1 Xnti + 1 Xnti = 1/2 (Xi - n+1 (n+1)) =片智 (Xi-Xntl) = Sm12 13. Znm= ntm = 2; = mm (Exit En Yi) (n+m)(nxn2+mxn2)-nm(xn2-xn) (ntm) Zntr ntm-= E1 (Zi-Zmtn) ntmi 14 - (-4, -2.1, -2.1, -01, -0-1, 0, 0, 12, 1.2, 2.01, 2.22, 3.2, 3.21) 1.2,7.2 15. 易知 NX~ P(NX) e-n/ , 1=0, |.L ... 16. 局知E(X)=E(X)=P(X)=D(X)=加,且X~T(d', A')则X~T(nd, N)



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X-1 ~ M(10)

.: Y~ X'(n)

18. m(5, X;) ~ X(1)

カーカ(をかれ)いへとい

根据卡方分布的加性

Yn X(1)

19.11. PS 0.3< 5 <2.114)

= PS2-7 < 952 < 19.026]

Y= (n-1)si ~ x2(9)

D=P(Y72.7)-P(Y719.026)=0.975-0.015=0.95

12) XY)=/8

 $D(5')=D(\frac{6'}{9}Y)=\frac{6'}{81}\cdot 18=\frac{2}{9}6^{4}$

20 11).

2 Xi & MO, nby

MD 176 ~ N(0.1)

 $Y = \pi (\frac{2}{5} \pi_{1})^{2} =$

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第 , 贝兰()



$$Y^2 \sim X^1(1)$$
 $X' = \frac{Y'/1}{2/n} = F(1,n)$

22. 1)
$$\frac{1}{i}$$
 $X_i \sim N(0, n6)$, $\frac{1}{6}$ $N(0, 1)$

$$\frac{n}{i}$$
 $\frac{X_i}{\sqrt{n}6} \sim N(0, 1)$, $\frac{1}{2}$ $\frac{1}{\sqrt{n}6}$, $\frac{1}{2}$ $\frac{1}{\sqrt{n}6}$, $\frac{1}{2}$ $\frac{1}{\sqrt{n}}$ $\frac{1}{\sqrt{$

$$\frac{1}{\sqrt{1-\sqrt{m}}} \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sqrt{6^2 z}} = \sqrt{z/m} \sim t(m)$$

$$\frac{1}{1-n+1}\left(\frac{X_{1}^{2}}{6}\right)^{2} = \frac{1}{\sqrt{2}m} \times t(m)$$

$$\frac{1}{1-m+1}\left(\frac{X_{1}^{2}}{6}\right)^{2} = \frac{1}{\sqrt{2}m} \times t(m)$$

$$\frac{1}{1-m+1}\left(\frac{X_{1}^{2}}{6}\right)^{2} = \frac{1}{\sqrt{2}m} \times t(m) = \frac{1}{\sqrt{2}m} \times t(m)$$

$$\frac{1}{1-m+1}\left(\frac{X_{1}^{2}}{6}\right)^{2} = \frac{1}{\sqrt{2}m} \times t(m) = \frac{1}{\sqrt{2}m} \times t(m)$$

$$\frac{1}{1-m+1}\left(\frac{X_{1}^{2}}{6}\right)^{2} = \frac{1}{\sqrt{2}m} \times t(m) = \frac{1}{\sqrt{2}m} \times t(m)$$

$$\sqrt{\frac{N+1-\overline{X}}{N}} = \sqrt{\frac{N}{N+1}} \cdot (\frac{N}{N+1}-\overline{X}) \cdot \frac{1}{6} \sim N(0,1)$$

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fy(y)= e-y (inexp(1))
由25题给论验

当Ymexx(1), Y= 2計 Yi ~X'(2n)

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