



section 6.)
1.(a) mean-value $\hat{x} = \frac{\Sigma x_i}{27} = 8.14$
the median value 9
$\sigma = \sqrt{\sigma^2} = \sqrt{E(x^2)} - \bar{x}^2 = \frac{1.66}{1.66}$
d, p====================================
P 1-66 = 0.207.
8. (a) 80-12 =0.85
(b, P= (0.85) = 0.7225
9 (a) (5) = E(x)= = 0x18+ 0x18+ 0x1x1 = 2.11
(b) $\sigma = \sqrt{\frac{5}{n}} = \sqrt{\frac{2.11}{n}} = 0.119$
3. X(x,0)=0.5(1+0x) X-15xEN
= Eas= Xf Cox = Xxxx. a) dx
= \ ' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
= 2x2 + i.5
13. E.x. = 5xf(x.7) dx = 10.5x(1+0x)dx
$= \int_{-\infty}^{\infty} o.5x dx + \int_{-\infty}^{\infty} o.50x^2 dx$
$=\frac{x^2}{4}\Big _{-1}^{1}+\frac{x^2=0}{96}\Big _{-1}^{1}$
$=$ θ $\frac{\partial}{\partial x}$
$\overline{\chi} = \mu = E_{i}\chi_{i} = \frac{\partial Q}{\partial x_{i}}, \theta = 3\overline{\chi}$



20. ax p=六= 3
.b, yes
$(C, P' = (I-P)^5 = 0.44$
-1. W Ex = n=x x Exx = Vait(Ex)2.
$= \beta \cdot \left[(H \pm \lambda) \right] = \beta^2 \left[\Gamma (H \pm \lambda) \right] - \left[\Gamma (H \pm \lambda) \right]^2 + \beta^2 \left[\Gamma (H \pm \lambda) \right]^2$
$\beta = \frac{A \geq x_i}{\Gamma(i + a)} = \beta^2 \Gamma(i + a)$
$=\frac{1}{2}\Sigma \chi_{i}^{2}$
1 = 1 1 = 1 + 2
$\frac{1}{n} \sum \gamma i^2 = \frac{(\frac{1}{n} \sum \gamma i)^2 \Gamma(1 + \frac{1}{n})}{(\Gamma(1 + \frac{1}{n}))^2}$
Thus d can be stre if X, Xn is dotermine.
$\beta = \frac{1}{160}$
$\frac{1}{12} = \frac{r(1+x)}{(1+x)^2} = 1.0522 \approx \frac{1}{0.05} d=5 \beta = \frac{28}{(0.12)}$
₹ ¹ /10100
29. (a) $E\alpha_i = \frac{1}{2} \frac{1}{2} = \frac{1}{2} \left[\frac{1}{2} \left$
$=\frac{1}{\sqrt{2}}=\frac{1}{\sqrt{2}}=\frac{1}{\sqrt{2}}\sum_{i}\chi_{i}^{2}$
32(0) F(x) = F(x, <) x, <) - (x) = (5) = (5) = (5)
$f_{y}(y) = \frac{ny^{n}}{n}$
(b) Ex 5 y · fy(4) wy = 5 ny 2 = ny 1 y =