

¥ = 7.7

 $S = J_2 = \int_{-\frac{1}{27}}^{\frac{1}{27}} = \int_{-\frac{1}{$

8. a. p = \frac{90-12}{80} = 0.85

9. a. h = 150

 $\hat{A} = \bar{x} = \frac{\sum_{i=1}^{k}}{m} = \frac{(0)(N) + (0)(37) + (0)(42) + (0)(20) + (4)(13) + (5)(1)}{+(6)(2) + (7)(1)}$

= 2.11

b. $\delta_{x} = \frac{\delta}{Jn} = \frac{Ju}{Jn} = \frac{Ju}{J(so)} = 0.119$

13. M= EQ) = Six(1+0x) dx = [x1 + 0x] = = = 30 = 34 $\hat{\partial} = 3\bar{x} \implies E(\hat{a}) = E(3\bar{x}) = 3E(\bar{x}) = 3M = 3\frac{1}{3}\theta = \Theta$

6.2.20.0. p = In [(x) p x (1-p) -x] = In (x) + x In p + (n-x) In (17)

b. It is an unbiased estimator of p

c. (1-p) = (1-p) = (1-0.15) = 0.4737

 $\frac{1}{20} = \frac{r(H \frac{1}{20})}{r^{2}(H \frac{1}{20})} = \frac{r^{2}(H \frac{1}{20})}{r^{2}(H \frac{1}{20})} = \frac{r^{2}(H \frac{1}{20})}{r(H \frac{1}{20})} = 0.45$

 $\frac{1}{2} = 0.2 \Rightarrow \hat{a} = 5$ $\hat{B} = \frac{R}{r(1.2)} = \frac{28}{r(1.2)}$





UPDF

WWW.UPDF.CN (x), ..., xn; 2, 0) = { 2^ne^{-2E(x)} - 0}

8< Ax ... , 6 & 1x

Likehol = { > exp(- lIx;)exp(nlo) min (x;) 2 0 min Crit O

 $\frac{\partial}{\partial x} = \min_{x \in \mathbb{R}} (x_i)$ $\frac{\partial}{\partial x} = \min_{x \in \mathbb{R}} (x_i)$

6. 0 = 0.64 Ix: = 55.8 2 = 10 = 0.202 2. a. Fyly) = P(Y = y) = P(x = y, ..., x = y) = P(x = y) ... P(x =) $= \left(\frac{y}{\theta}\right)^n \text{ for } 0 \le y \le \theta$ $fy(y) = \frac{hy^{k-1}}{\theta}$

b. ECD = Joy . My - dy = n+1 0 8 = Y is not unbiased, This since $E\left(\frac{n+1}{n}Y\right) = \frac{n+1}{n}E(Y) = \frac{h+1}{n} \cdot \frac{n}{h+1} \theta =$