My (u, 52) 1 (X Lupta sut X inpros) X\$(0,-15. [28, 2741.5. TAR) -1(x)=1/276 exp(-(x-n)) (k, , , kr) = k,k, kr), -(-(x)=102 Ex(X)= B(XCX) Placker = Ex (p) - Ex(a) Joet dx= 17 $E[g(x)] = \sum_{x \in X} g(x) p^{(x)}$ ₫(-1)=**]**-₹(1) $= \int_{-\infty}^{400} g(x) p(x) dx$ E[xh] {[xh] co Magrendent: 18x, y P(XEx, YEY)=P(XEX)P(YEY) to move to the port

I gill her askal about
every poet $E[x^2] = (E[x])^2 + Var(x)$ t [(x-E(x))] P(1x-11266) 5 /2 Binomial (h, p) petazi nemo 16th Handerdud - 12x(k)= (h)pk(1-p)nx 1c>0 E[(x-u)t] - ElxJenp. - Var(x)=np(1-p) sherry 3rd, (curts) is 4th - px(k)= e k! kells Mx(t)= [etx] - ELX]=> - Var(x)=> it exms for openintenal Puisson limit themen In (P) ph (1-ph) ht = e-x 21 E [xh] = Mx (b) (c) Pn G[0, 27]N -7> b) wan a Mx(t)=(pe+1-p)" Continues histor distiblion Marthelop(pt + 6ti) - 6 [x)= 40 2 (b-6) 2 U(u,b) 266

327=K17+ 226 $\sum (y - \bar{y})^2 = \sum (\hat{y} - \bar{y})^2 + \sum (y - \hat{y})^2$ R2 = 1 - STE = 12 (\$\hat{\beta} \beta \beta \frac{\fin}}}}}}{\frac{\fra (\$1-B1) N 5xx ~t(n-2) both exists. Helding (EUXI) coo bitheyor NSX atthrough NAST ýnew=a+bxnew th-2, wz sina (the x)2 check transe labor whe S. = Syy-55xy $\frac{-\sum^{n}(y-y')^{2}}{6q^{2}} \sim x^{2}(n-2)$

hypotess teding W.T Sample wer sample were $x = \sqrt{\sum_{k=1}^{N} x_k} \quad (2x) = h_x$ sample congruence $x = \sqrt{\sum_{k=1}^{N} x_k} \quad (2x) = h_x$ $x = \sqrt{\sum_{k=1}^{N} x_k} \quad (2x) = h_x$ $x = \sqrt{\sum_{k=1}^{N} x_k} \quad (2x) = h_x$ (x-Mx) yulg 2 N(0,1) (x,m), (x, Nb,1) X - Z0/21/1 (x The manufaction)

(x The manufaction) $(x-\mu)$ $\sqrt{\frac{n}{S_{int}^2}} \sim t(n-1)$ Sz.n = (2(2,2)= 1, 5 (2-2) - tropak to-1, a/2 F[sx, n-1] = 6x2 menson $\frac{\sum_{i=1}^{n}(x_{i}-\mu_{i})^{2}}{6n^{2}}\sim y^{2}(n)$ $\sum_{i=1}^{\infty} \left(\frac{x_i - n_v}{6x} \right) \sim \chi^2(n)$ · The To Six Elected = Elected $\frac{\sum_{i=1}^{n}(X_{i},-jny)^{2}}{\sum_{i=1}^{n}(X_{i},-jny)^{2}} \leq 6\sqrt{2}$ $\frac{\sum_{i=1}^{n}(X_{i},-jny)^{2}}{\sum_{i=1}^{n}(X_{i},-jny)^{2}} \leq 6\sqrt{2}$ Method of Monents ELV) = X Elx's] = xh E (Xi-X)~ x2(h-1) $\frac{\sum_{i=1}^{n}(x_{i}-\bar{x})^{2}}{68^{2}} \sim \chi^{2}(h-1)$ $\frac{(h-1) \int_{0.3}^{2} \chi^{2}_{h-1,6} \chi^{2}_{h-1,6} \chi^{2}_{h-1,6}}{\chi^{2}_{h-1,6} \chi^{2}_{h-1,6} \chi^{2}_{h-1,6}}$ Contain equal war cortains equal supply Ho 0 = 60 Myen 4, 0 - 60 Nonunique, explace of 16 hours Sample me large, then haved binsed, asymptotic unbinded Y=B+B,x+E, meter Lis & to gar H Deto P(Tredeta) Eled 91~ N(0,82) 4d tus - 40 8 + again 4, 0 +00 5 = GV(XXY) FUNT FUNTY a = Pr (reputally tre) $\frac{S_{XX}}{S_{XX}} = \underbrace{\frac{S_{X}(X-x)(y-y)}{S_{XX}}}_{S_{X}(X-x)^{2}}$ Belot way 4 false) ECYJ=k Varly)=2k proc - 1-B = \(\frac{2}{5} \frac{1}{5} - \frac{2}{5} \frac{1}{5} level associficated f(v) = f(nti)/2) (1+h)/2 (nti)/2 (nx) regal 16 at significan lul x William Sealy hoset Student 1908 rxy= (x-x)(y-y) Sxx NE(xx)2/12(17) NEXX 5/1/ (x-1/x) 1 - N(0,1) independ Exy-Exzyln $\sum_{i=1}^{N} \left(\frac{x_i - \overline{x}}{6x} \right)^2 \leq \frac{(n_i) \int_{-\infty}^{\infty} x_{in-1}}{6x^2} \wedge x_i^2 (n-1)$ PXNY PXILED /NEX-(E)/n Z= = In(Er) fartable) (x-11x) NSx,n1 ~ t(n-1) (2. = (//2)) Mus-Mo,1)