

Hypothesis test. 1. X~ Exp(X)  $f(x) = \lambda e^{-\lambda x}$ ,  $f(x) = 1 - e^{-\lambda x}$ Ho: 231 H1: 261  $0 \quad b(\lambda) = P(x \ge 1 \mid \lambda) = 1 - P(x \le 1) = e^{-\lambda \alpha}$ 2. bînomîal dîst, 2-tail problem  $f(n) = \binom{n}{\nu} p^{\nu} (1-p)^{n-\nu}$ thus fly = (20) py (1p) 20-4 Ho: p= az H1: P = az 0 BLP) = P(y=7/P)+P(y<1/P)  $= 1 - \sum_{n=0}^{b} {\binom{2n}{n}} p^{\nu} (1 - p)^{2n - \nu} + \sum_{n=0}^{b} {\binom{70}{7}} p^{\nu} (1 - p)^{2n - \nu}$ b(p=0)=1, b(p=a1)=0,3py B( p=0,2) = 0,1008 blp= a3) = 0,399 B1 P= 0, W)= 0,7 IOS BLP=0, 50= 0, PW23 B(P=ab)=0.193 B(P=a7)=apppB(P=n8)=o(PP) B(P=nP)=1B(P=1) = 1

$$f(x) = \frac{1}{\sqrt{2\pi r^2}} \exp\left\{\frac{(x-u)^2}{2r^2}\right\}$$

thus. 
$$C_{12} | , C_{22} )$$

$$= \sum_{i} \left( \left( \frac{1}{2} \right) \cdot \frac{1}{2} \right)^{q-y}$$

$$= \sum_{0,1,7,8,9} {\binom{9}{y}} p^{y} (1-p)^{9-y}$$