Ho: 4~ p(x)= 19(0,1)} M1: 2~P1(x)=e=ex/(0,1)9 [(x = A | Ho) = L => Sdx = A = L 6:  $x \le d$ ,  $d_1 = d$  d = d = e dB) N=2  $f = (\frac{e}{e-1})^2 e^{-(x_1 + x_2)} \ge C \Rightarrow C (x_1 + x_2) \ge B$   $P(x_1 + x_0 \le A \mid H_0) = 1$   $C = (x_1 + x_2) \le A$  $\int \int dx_1 dx_2 = A^2 - L = A = \int 2L$ G: X1+X2 & 521, d= + W = P(x1+ x2 \le A | H1) = SS (=1)e (x+x2) dx1/2=

x1+x2 \le A | H1) = SS (=1)e (x+x2) dx1/2=

$$= (\frac{1}{1 - 1})^{2} (1 - \frac{1}{1 - 1})^{2}$$

W-P(Ex; & A|Mi) = P(Ex; -nMOX)
JUDICA  $\begin{array}{c|c}
& A - nM[x] & H_1 \\
\hline
& J & D[x] & H_1
\end{array}$   $M[x] = \begin{cases}
& xe & e^{-x}dx \\
& e^{-1}
\end{cases}$  $[x^2] = \frac{22-5}{e-1} \quad \text{D[x]} = \frac{e^2 - 3e+1}{(e-1)^2}$ G:  $\sum_{x=1}^{\infty} \frac{1}{2} + \frac{1}{2} = \frac{1}{2} =$  $= \frac{A - nM(x)}{5nP(x)} = \frac{n}{2} + u_0 \int_{\overline{12}}^{\overline{11}} - \frac{h e^{-2}}{e^{-1}} + \frac{n}{2} = \frac{n}{2}$   $= \frac{1}{2} + u_0 \int_{\overline{12}}^{\overline{11}} - \frac{h e^{-2}}{e^{-1}} + \frac{n}{2} = \frac{n}{2}$   $= \frac{1}{2} + u_0 \int_{\overline{12}}^{\overline{11}} - \frac{h e^{-2}}{e^{-1}} + \frac{n}{2} = \frac{n}{2}$ 

T12)
$$d = 0.2$$

$$H_0: \oint \sim \rho_0(x) = \frac{1}{4} 4 \frac{1}{4} + \frac{1}{4} \frac{2}{3} + \frac{1}{6} \frac{1}{3} \frac{3}{3} + \frac{1}{3} \frac{4}{9} \frac{1}{9}$$

$$H_1: \oint \sim \rho_1(x) = \frac{1}{4} 4 \frac{1}{9} + \frac{1}{4} \frac{1}{2} \frac{3}{9} + \frac{1}{4} \frac{1}{3} \frac{3}{9} + \frac{1}{4} \frac{1}{9} \frac{1}{9}$$

$$P = \underbrace{S_1(x) S_1(x_2)}_{S_0(x_1)}$$

$$\begin{cases}
1 & 1 & 2 & 3 & 4 & 1 & 2 & 3 & 4 \\
2 & 1 & 1 & \frac{3}{2} & \frac{9}{4} & \frac{1}{4} & \frac{1}{6} & \frac{1}{16} & \frac{1}{24} & \frac{1}{42}$$

$$\frac{3}{9} \frac{9}{2} \frac{9}{2} \frac{9}{4} \frac{9}{8} \frac{9}{4} \frac{1}{9} \frac{1}{8} \frac{1}{3} \frac{1}{4} \frac{1}{4} \frac{1}{3} \frac{1}{6} \frac{1}{4} \frac{1}{8}$$

$$\frac{9}{4} \frac{9}{4} \frac{9}{4} \frac{9}{8} \frac{9}{4} \frac{1}{6} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{3} \frac{1}{6} \frac{1}{4} \frac{1}{8}$$

$$\frac{1}{4} \frac{1}{4} \frac{2}{4} \frac{3}{4} \frac{9}{8} \frac{9}{4} \frac{9}{16} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4}$$

$$\frac{1}{4} \frac{1}{4} \frac{1}{4$$

1 1/16 1/16 1/16 1/16 2 1/16 1/16 1/16 1/16 2 1/16 1/16 1/16 1/16 3 1/16 1/16 1/16 1/16 4 1/16 1/16 1/16

$$\begin{cases} 2C, (=\frac{3}{2}) \\ 1=\frac{7}{2} \\ 1=\frac{11}{16} \end{cases}$$