Ho: 
$$n(t) = -1 + m(t)$$
  $0 < t < T$   
H<sub>1</sub>:  $n(t) = 1 + m(t)$   $0 < t < T$ 

Considerando pulo ADÍTIVO O AUSSIANO: 
$$\int_{\mathcal{N}} \left( \mathbf{m} \right) = \frac{1}{\left| \mathbf{z} \cdot \mathbf{T} \right|^2} L \frac{-\left( \mathbf{m} - \mathcal{M} \right)^2}{2\sigma^2}$$
 VARIÂNCIA =1

(OMO A MÉDIA É NULA E A VARIÂNCIA UNITÁRIA 
$$\int_{\mathbb{R}} (M) = \frac{1}{|\mathbb{Z}|^2} e^{-\frac{M^2}{2}}$$

NA HIPOTESE HO: M(t) = 
$$\chi(t)$$
 +1, LOGO  $\int (\chi | H_0) = \frac{-(M+1)^2}{2\pi I}$ 

No theorese 
$$H_1: n(t) = n(t) - 1$$
, LOGO  $f(\underline{x} \mid \underline{H}) = \frac{e^{-(m-1)^2}}{|z|^n}$ 

PARA MAXIMA VEROSSIMILHANGA (ML)

$$-\frac{\left(m-1\right)^{2}}{2}+\frac{\left(m+1\right)^{2}}{2}\stackrel{h}{\geq}0 \qquad -m^{2}+2m-1+m^{2}+2m+1\stackrel{h}{\geq}0 \qquad 4m\stackrel{h}{\geq}0$$

PROBOBIL19093 23 BRED :

$$\alpha = P_{\overline{x}} = P(A, |H_0) = \int_{A_1} f(x)H_0 dx = \frac{1}{|Z_{\overline{x}}|} \int_{0}^{\infty} e^{-\frac{(x+1)^2}{Z}} dx = \frac{1}{Z} \text{ asc} \left(\frac{1}{|Z_{\overline{x}}|}\right) = Q_159$$

$$\beta = l_{\text{IT}} = l(s, l_{\text{H}}) = \int_{\text{FO}} \int_{\text{C}} (\underline{x} | \underline{\mu}_{l}) dn = \int_{\text{Z}} \int_{0}^{0} e^{-\frac{(n-1)^{2}}{2}} dn = \frac{1}{2} e^{n} \int_{0}^{\infty} e^{-\frac{(n-1)^{2}}{2}} dn = \frac{1}{2} e^{n} \int_{0}^{\infty}$$

$$\Lambda_{NP} = \frac{\int (\underline{x} | \underline{H}_1)}{\int (\underline{x} | \underline{H}_2)} \stackrel{\underline{H}_1}{\underset{\underline{H}_2}{\longrightarrow}} \lambda \quad Logo \quad S_{NP} = \ln \left[ \frac{\int (\underline{x} | \underline{H}_1)}{\int (\underline{x} | \underline{H}_2)} \stackrel{\underline{H}_1}{\underset{\underline{H}_2}{\longrightarrow}} \ln (\lambda) \right]$$

$$660$$
  $\frac{4n}{z}$   $\frac{4n}{4}$   $\frac{4n}{z}$   $\frac{4n}{4}$   $\frac{4n}{z}$   $\frac{4n}{z}$ 

ACHONEO X

$$\int_{\Omega} \left\{ \left( \underline{x} \mid 4_0 \right) dx = \alpha = 0.2 \Rightarrow \int_{\overline{z}}^{\infty} \int_{\overline{z}}^{\sqrt{x_{+1}}} \frac{\left( \underline{x} \mid 4_0 \right)}{z} = 92 \Rightarrow \int_{\overline{z}}^{2} \exp \left( \frac{\ln(x)}{z} + 1 \right) = 92$$

$$l_{\frac{1}{Z}}(\lambda) = -6,15838 = \lambda = 0,7285$$

$$\beta = \ell_{\text{IT}} = \rho(\Lambda_0 \mid \mathcal{H}_1) = \int_{\rho_0} \int_{\rho_0}^{\rho_0} \left( \frac{|\mathcal{H}_1|}{2} \right) du = \int_{\rho_0}^{\rho_0} \int_{\rho$$

$$\Lambda_{g} = \frac{f(\underline{x} \mid \underline{H})}{f(\underline{y} \mid \underline{J}_{0})} \stackrel{H_{1}}{\underset{lo}{\rightleftharpoons}} \frac{c_{10} - c_{00}}{c_{01} - c_{11}} \cdot \frac{f(\underline{J}_{0})}{f(\underline{J}_{1})} \qquad \delta_{B} = ln(\gamma_{0})$$

$$\frac{c_{10}-c_{00}}{c_{01}-c_{4}} \quad \frac{\ell(4)}{\ell(4)} = \frac{q_{8}}{q_{5}} \cdot \frac{q_{25}}{q_{35}} = q_{53} = c_{453} \Rightarrow \ell_{4}(q_{53}) = -q_{1}63$$

$$\alpha = \theta_{\tau} = \rho(A_1 | H_0) = \int_{\theta_1}^{\theta_2} \int_{-\theta_1 31}^{\theta_2} \int_{-\theta_2 31}^{\theta_2} \int_{-\theta_1 31}^{\theta_2} \int_{-\theta_1 31}^{\theta_2} \int_{-\theta_1 31}^{\theta_2} \int_{-\theta_1 31}^{\theta_2} \int_{-\theta_2 31}^{\theta_2} \int_{-\theta_1 31}^{\theta_2} \int_{-\theta$$

$$\beta = l_{JJ} = P(s, 14) = \int_{fo} f(\underline{x}|\underline{x}_{1}) dn = \int_{fo}^{q_{2}} \int_{-\infty}^{q_{2}} e^{-\frac{(n-1)^{2}}{2}} dn = \int_{z}^{z} e^{-\frac{1}{2}} e^{-\frac{1}{2}} e^{-\frac{1}{2}} dn = \int_{z}^{q_{2}} e^{-\frac{1}{2}} e^{$$