$$X_1, \dots, X_n \sim \mathcal{N}(\mathcal{M}, 6^2)$$

$$\begin{cases} H_0 = \mathcal{M} \times \mathcal{M}_0(\bullet) \\ H_1 = \mathcal{M} \leq \mathcal{M}_0(\bullet) \end{cases}$$

$$\frac{\Lambda(n)}{\sup\{L(\theta)n\}:\theta\in\varphi\}} = \frac{L_0}{L}, \quad L_0 = \left(\frac{1}{2\pi\delta^2}\right)^{\frac{n}{2}} \exp\left[-\frac{\sum (n_1^2 - \mu_0)^2}{2\delta^2}\right]$$

$$\frac{1}{2\pi \frac{1}{n} \sum_{n=1}^{\infty} (n; -\overline{n})^2} e^{n} P(\frac{-n}{2}) = \left(\frac{ne^{-1}}{2\pi \sum_{n=1}^{\infty} (n; -\overline{n})^2}\right)^{\frac{n}{2}}$$

$$\sum_{i} (n_{i} - M_{i})^{2} + \sum_{i} (n_{i} - n_{i})^{2} + n(n_{i} - M_{i})^{2}$$

