$$Exponencial$$

$$p(x(\theta) = \frac{1}{\mu} e^{\frac{x}{\mu}}$$

$$L(\theta) = p(x_1, \dots, x_N | \theta) = \prod_{i=1}^{N} p(x_i | \theta) = \prod_{i=1}^{N} e^{\frac{x}{\mu}}$$

$$L(\theta) = (\frac{1}{\mu})^N e^{\frac{1}{\mu} \frac{x}{2} x_i}$$

$$L(\theta) = + N \log(\frac{x}{\mu}) - \frac{1}{\mu} \underbrace{E}_{i=1}^{N} x_i$$

$$\frac{\partial l}{\partial \theta} = 0 \quad (=) \quad D\mu - \underbrace{E}_{i=1}^{N} x_i = 0 \quad (=) \quad \mu = \underbrace{E}_{i=1}^{N} x_i$$

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$$\begin{array}{c} N_{OAMMel} \\ P(X|\Theta) = \frac{1}{\sigma \sqrt{2\pi}} e^{\frac{1}{2\sigma^2}} = \frac{1}{|2\pi\sigma^2|} e^{\frac{1}{2\sigma^2}} e^{\frac{1}{2\sigma^2}} \\ L(\Theta) = P(X_1, \dots, X_N | \Theta) = \prod_{i=1}^{N} P(X_i | \Theta) = \prod_{i=1}^{N} \frac{1}{|2\pi\sigma^2|} e^{\frac{1}{2\sigma^2}} \\ l(\Theta) = \sum_{i=1}^{N} \left[lg(\frac{1}{|2\pi\sigma^2|}) - \frac{(K_1 - M_1)^2}{2\sigma^2} \right] = -\frac{N}{2} lg(2\pi\sigma^2) - \frac{1}{2} \sum_{i=1}^{N} (K_1 - M_1)^2 \\ \frac{1}{2\sigma^2} = \sum_{i=1}^{N} (X_1 - M_1)^2 = 0 = 0 \end{array}$$

$$\begin{array}{c} D = \sum_{i=1}^{N} (X_1 - M_1)^2 = 0 = 0 \\ D = \sum_{i=1}^{N} (X_1 - M_1)^2 = 0 = 0 \end{array}$$

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Ray leigh
$$P(x|\theta) = \frac{x}{\theta^2} e^{\left(\frac{-x^2}{2\theta^2}\right)}$$

$$L(\theta) = P(x_1, \dots, x_N|\theta) = \pi P(x_1|\theta) = \frac{N}{11} \frac{x_1}{\theta^2} e^{\left(\frac{-x_1^2}{2\theta^2}\right)}$$

$$L(\theta) = \frac{\lambda}{4\pi} \left[\log(x_1) - \log(\theta^2) - \frac{x_1^2}{2\theta^2}\right]$$

$$\frac{\lambda}{4\theta} = 0 \Rightarrow 0 - \frac{\lambda}{4\theta} + \frac{\lambda}{4\theta} \frac{\lambda}{4\theta} \frac{\lambda}{4\theta} = 0 \Rightarrow 0$$

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