

$$l_{\mathbf{x}}(\alpha, \sigma^2) = \sum_{i=1}^{n} l_{n} g(\mathbf{x}_{i}) = -\sum_{i=1}^{n} \frac{(\mathbf{x}_{i} - \alpha)^2}{2 \sigma^2} - l_{n} \sigma - l_{n} \sqrt{2\pi}$$

$$e_{\infty}(q, \sigma^2)_{q} = \sum_{i=1}^{n} \frac{x_i - q}{\sigma^2} \Rightarrow 0 \Rightarrow x_i = x_i$$

$$\ell_{x}(\alpha, G^{2})_{G^{1}}^{i} = + \sum_{i=1}^{n} \frac{(x_{i} - \alpha)^{2}}{G^{3}} - \frac{1}{G} = \frac{x_{i}^{2} - 2x\alpha + \alpha^{2} - G^{2}}{G^{3}} = 0$$

$$\frac{d^{2}\ell_{x}(\alpha,\sigma^{2})}{d^{2}\ell_{x}(\alpha,\sigma^{2})} = \begin{bmatrix} \frac{\partial^{2}\ell_{x}(\alpha,\sigma^{2})}{\partial\alpha^{2}} & \frac{\partial^{2}\ell_{x}}{\partial\alpha^{2}} & \frac{\partial^{2}\ell_{x}}{\partial\alpha^{2}} \\ \frac{\partial^{2}\ell_{x}(\alpha,\sigma^{2})}{\partial\alpha^{2}} & \frac$$

$$\frac{2}{x^{2}} + \frac{1}{\sigma^{2}} = 0$$

$$\frac{-3}{\sigma^{2}} + \frac{1}{\sigma^{2}} = 0$$

$$\frac{1}{\sigma^{2}} + \frac{1}{\sigma^{2}} = 0$$

Other:
$$O = (\overline{x}; \overline{x^2} - \overline{x}^2)$$
.



