__/__/_

Q1) 01= M, 02=62

HLE = 9

4(x) = 1 $e^{-(x-y_1)^2}$ $\sqrt{2 \pi l \sigma^2}$

 $+(2701702) = 1 e^{-(21-01)}$

01E (-0,0), 02E (0,0)

 $L(01,02) = \Pi f(x_i^0, 0_{19}0_2) = 0$ i=1

 $= 02 \cdot (2\pi) - n/2 - 1 \cdot \xi (ni-0,)$

 $log L(0_1, 0_2) = -n_{f_2} log 0_2 - n_{f_2} log (2T)$ $= \frac{2}{12} (xi - 0_1)^2$

202

Partial derivation both side w.r.t

$$\frac{\log 1(01,02)}{301} = -2 \Sigma(\chi_i - 0_1)(-1)$$

$$\frac{\partial \log L(0_1,0_2)}{\partial 0_2} = -n + \sum_{i=1}^{\infty} (x_i - \theta_i)^2$$

$$0_2^2 = \overline{\sigma_2} = \mathcal{E}(x_i' - \overline{n})^2$$

$$\frac{1}{\sqrt{1-x^2}} = \frac{2}{2} \left(\frac{x^2 - x^2}{x^2} \right)^2$$

