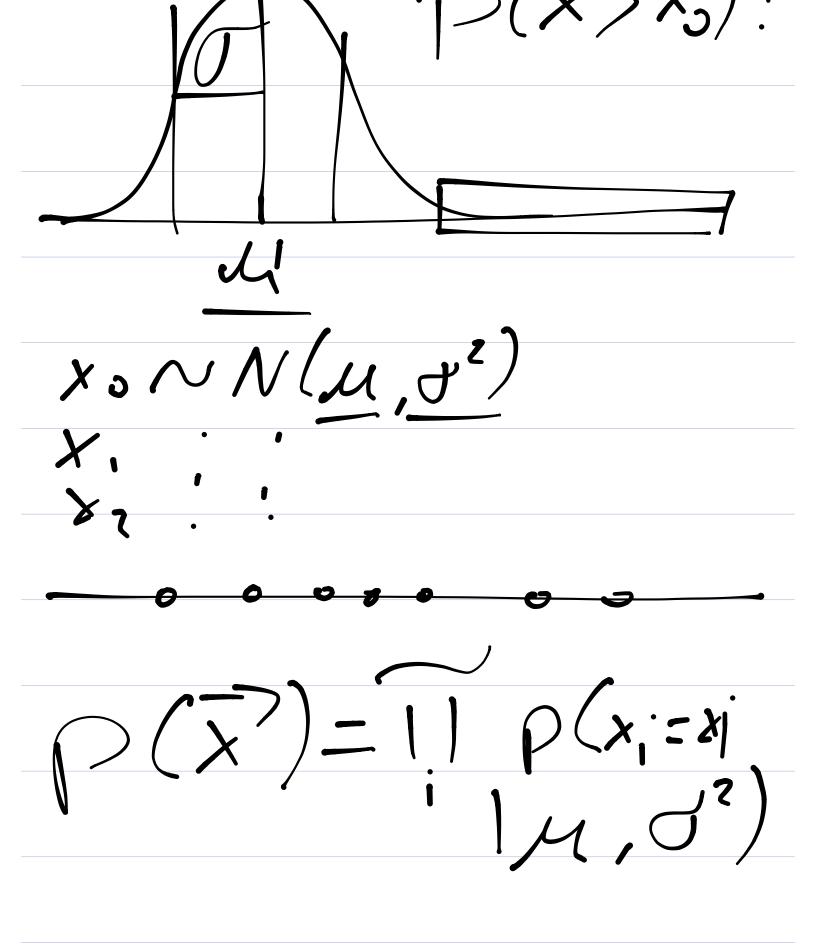


1 1/2 / V / 1/7



Linear Regression $y_{i} = \langle x_{i}, w \rangle$ $+ \mathcal{E}$ $p(y; | x; \omega, \beta) =$ $N(y; | \langle x_i, \omega \rangle, \beta)$ D(V) (xi), w, B) =

ERROR = -log (ikelihod)

$$E = -log L$$

$$= - [log N(...)]$$

Logistic Begression ア(メ) $\mathcal{T}(\langle \vec{x_i}, \vec{\omega} \rangle)$; ; (1-p;)

J(x) = ex $\frac{e^{x}+1}{c(x)} = \frac{c(x)\cdot(1-c(x))}{c(x)}$ E = -log L -log L = - [(y: log p: + [(-y:) log(1-pi)) $\nabla_{w} E = -\sum_{i} (y_{i} \cdot \frac{1}{P_{i}})^{2} \cdot \frac{1}{P_{i}}$

TO BE WITHUED