F45-STK 4155 AV6 26

$$\frac{\partial g(\overline{x})}{\partial x_{m-1}}$$

multivalued function $\vec{f}(\vec{x}) = \begin{bmatrix} f_0(\vec{x}) \\ f_1(\vec{x}) \end{bmatrix} \in [R]$ $\int_{-1}^{1} (\vec{x}) dx = \int_{-1}^{1} (\vec{x})$ $\frac{\partial S_0(\bar{x})}{\partial x_0} - \frac{\partial S_0}{\partial x_{m-1}}$ $\frac{\partial S_{m-1}}{\partial x_0} - \frac{\partial S_{m-1}}{\partial x_{m-1}}$ grad j = = 1 = 1e Tij = Osi

J(x) = Ax $A \in \mathbb{R}^{m \times m} \times \mathbb{R}^{m}$ M-1

$$\int_{1}^{2}(x) = \int_{1}^{2} a_{1} \cdot x_{1}^{2} = \int_{1}^{2} A_{1}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} = \int_{1}^{2} A_{1}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} = \int_{1}^{2} A_{1}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} = \int_{1}^{2} A_{1}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} = \int_{1}^{2} A_{1}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2} = \int_{1}^{2} A_{1}^{2} \cdot x_{2}^{2} \cdot x_{2}^{2}$$

$$(X - As)^{T} (X - As)$$

$$(X - As)^{T} (Y - XB)$$

$$= -2(X - As)^{T} WA$$

$$MSE : \frac{1}{m} (y - XB)^{T} (y - XB)$$

$$= C(y | BX)$$

$$= C(B)$$

$$= C(B)$$

$$= Com we X$$

$$\frac{\partial^{2}C}{\partial B^{2}} > 0$$

$$\frac{\partial^{2}C}{\partial B^{2}} > 0$$

Example

$$X^T X = \mathbb{Z}$$

$$C(B) = ?$$

$$C(B) = \frac{1}{m} (b - XB)(b - XB)$$

$$\beta = (x^{T}x)^{-1}x^{T}y$$