Date

Mean square Error =
$$\frac{1}{N} \left(\frac{y_i}{y_i} - \frac{\hat{y}_i}{\hat{y}_i} \right)^2$$

$$E = \frac{1}{N} \left(\frac{1}{y_i} - \left(\frac{1}{2} + \frac{1}{N} + \frac{1}{N} \right)^2 + \frac{1}{N} \right)^2$$

$$\frac{d\varepsilon}{da} = \frac{\partial}{\partial a} \frac{(y_1 - (ax_1 + b))^2}{(ax_1 + b_1)^2}$$

$$= \begin{cases} 1 & 2 \\ 1 & 2 \end{cases} (y_i - qx_i - b)^2$$

$$N = 1 \qquad 2q$$

$$= \frac{1}{2} \times \frac{1}{2} \times (y_{1} - ax_{1} - b) \cdot - x_{1}$$

$$\frac{\partial \mathcal{E}}{\partial b} = \frac{1}{N} \frac{N}{i=1} \frac{\partial}{\partial b} \left(\frac{\lambda_i - \alpha x_i - b}{\lambda_i} \right)^2$$

$$= \frac{1}{N} \frac{2}{1} = \frac{1}{N} \frac{2}{1-a} \frac{(y_i - ax_i^2 - b).-1}{1}$$

$$= \underbrace{\begin{cases} -y_{1} + ax_{1} + b \\ -y_{2} + a \neq x_{1} + b \end{cases}}_{1=1} = \underbrace{\begin{cases} y_{1} - ax_{2} \\ -y_{2} + a \neq x_{1} + b \end{cases}}_{1=1} = \underbrace{\begin{cases} y_{1} - ax_{2} \\ -x_{2} \\ -x_{2} \end{bmatrix}}_{1=1} = \underbrace{\begin{cases} x_{1} \\ x_{2} \\ -x_{2} \end{bmatrix}}_{1=1} = \underbrace{\begin{cases} x_{1} \\ -x_{2} \\ -x_{2} \end{bmatrix}}_{1=1} =$$