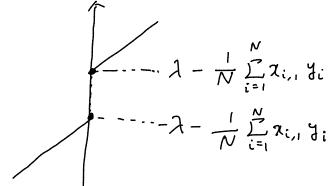
$$|5| \frac{1}{N} \sum_{i=1}^{N} \chi_{i,i}^2 = |\alpha \gamma \mathcal{I}|$$

$$\frac{1}{2N}\sum_{i=1}^{N}(y_i-\beta_i\chi_{i,i})^2+\lambda|\beta_i|$$

B, + Oの点、で微分についずでと、

$$-\frac{1}{N}\sum_{i=1}^{N}\chi_{i,i}(y_{i}-\widehat{\beta}_{i}\chi_{i,i})+\lambda\operatorname{sign}(\widehat{\beta}_{i})=0.$$

$$-\frac{1}{N}\sum_{i=1}^{N}\chi_{i,i}y_{i}+\widehat{\beta}_{i}+\lambda\operatorname{sign}(\widehat{\beta}_{i})=0.$$



$$\int 7 \lambda - \frac{1}{N} \sum_{i=1}^{N} x_{i,1} y_{i} \quad \text{a. } y \in \mathcal{B}_{i} = \frac{1}{N} \sum_{i=1}^{N} x_{i,2} y_{i} - \lambda$$

$$\lambda - \frac{1}{N} \sum_{i=1}^{N} x_{i,1} y_{i} \quad \text{70} \quad \text{70} \quad \lambda - \frac{1}{N} \sum_{i=1}^{N} x_{i,1} y_{i} \quad \text{a. } q \notin \mathcal{B}_{i} = 0$$

$$\lambda - \frac{1}{N} \sum_{i=1}^{N} x_{i,1} y_{i} \quad \text{70} \quad \text{a. } q \notin \mathcal{B}_{i} = 0$$

$$\lambda - \frac{1}{N} \sum_{i=1}^{N} x_{i,1} y_{i} \quad \text{70} \quad \text{a. } q \notin \mathcal{B}_{i} = \frac{1}{N} \sum_{i=1}^{N} x_{i,1} y_{i} + \lambda$$

$$\lambda - \frac{1}{N} \sum_{i=1}^{N} \chi_{i,1} y_{i} > 0 \quad \text{a.t.} \qquad \hat{\beta}_{i} = \frac{1}{N} \sum_{i=1}^{N} \chi_{i,1} y_{i} + \lambda$$