

LM. Eq. 4

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$$S = e^{T}e = (y - \hat{y})^{T}(y - \hat{y})$$

$$= (y - \hat{x}\hat{\beta})^{T}(y - \hat{x}\hat{\beta}) \qquad A^{2} = A^{T}A$$

$$= (y - \hat{\beta})^{T}(y - \hat{x}\hat{\beta}) \qquad A^{3}A = I - 1$$

$$= y^{T}y - y^{T}x\hat{\beta} - \hat{\beta}^{T}x^{T}y + \hat{\beta}^{T}x^{T}x\hat{\beta}$$

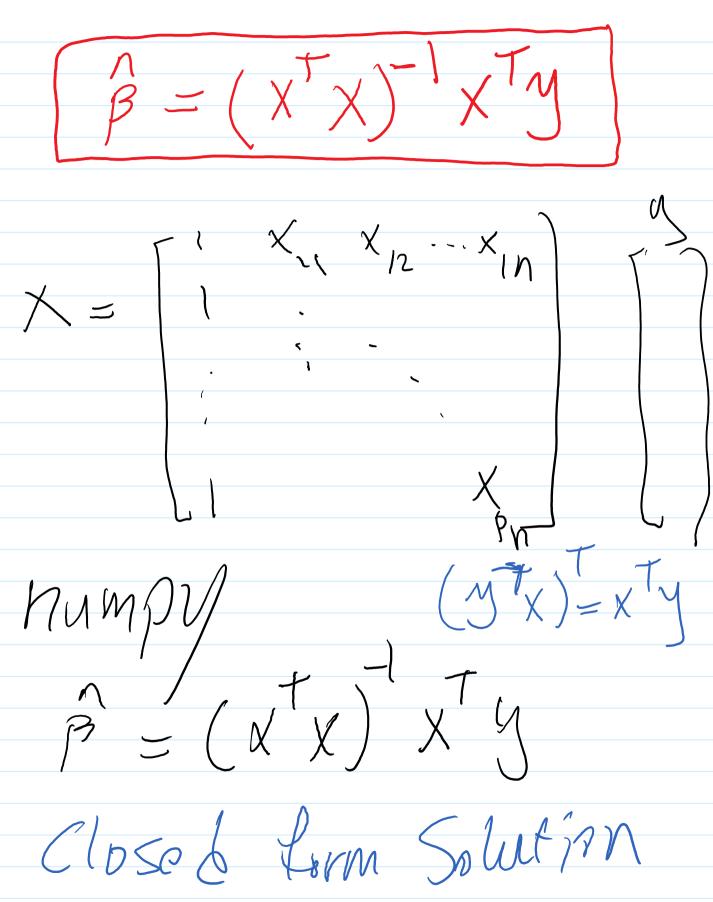
$$= x^{T}y$$

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

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

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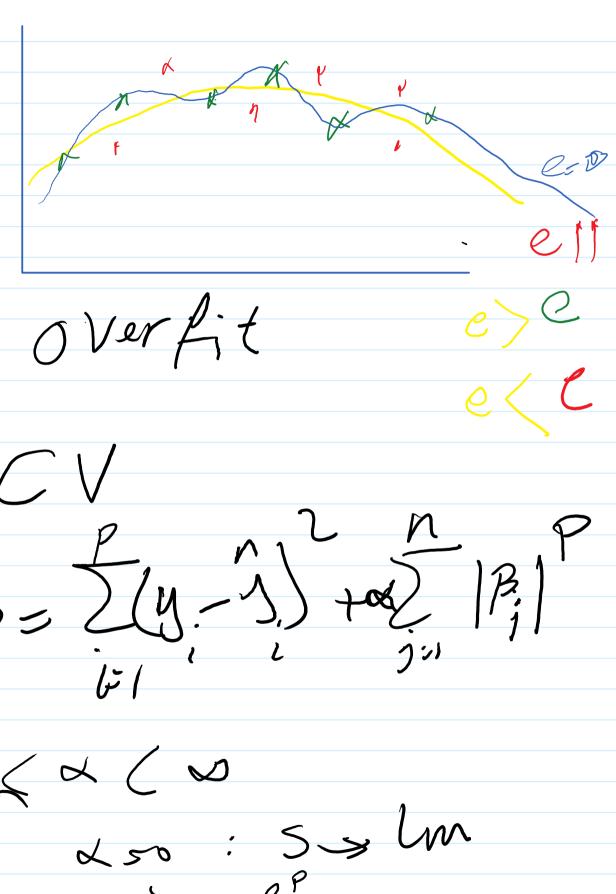


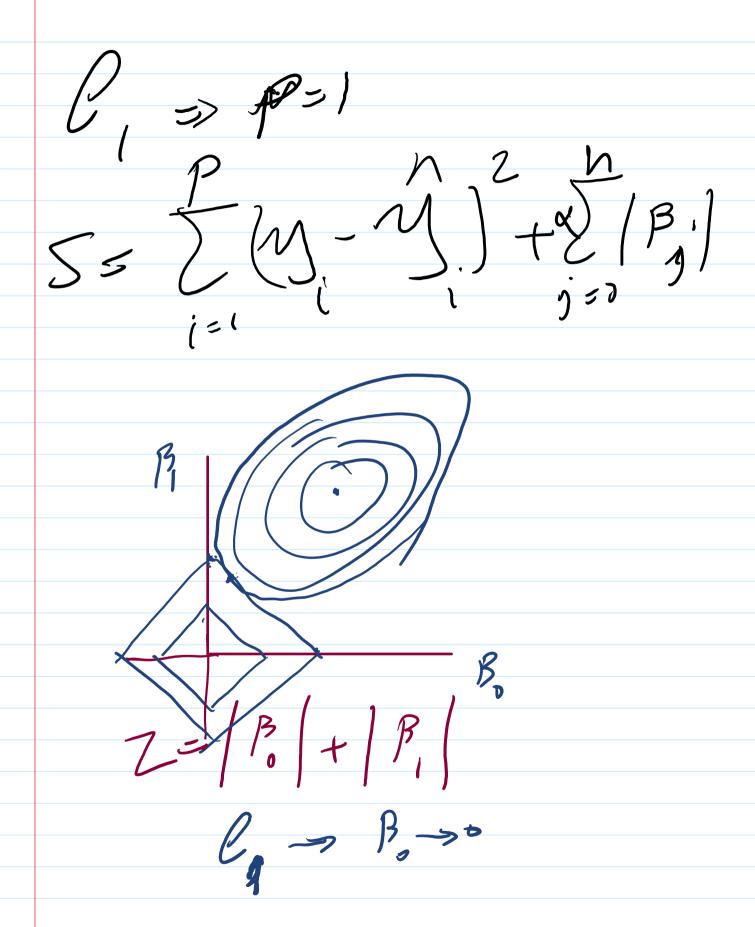
closed for solution. LM. Eq. 5 Sunday, May 17, 2020 an + bou + C=0 21,9e2 = -b f \ b2 mac Numerical Solution $\Rightarrow B_1B_1B_2B_1$ 12. B2 Stopping | Maxiter criteria | S < tol

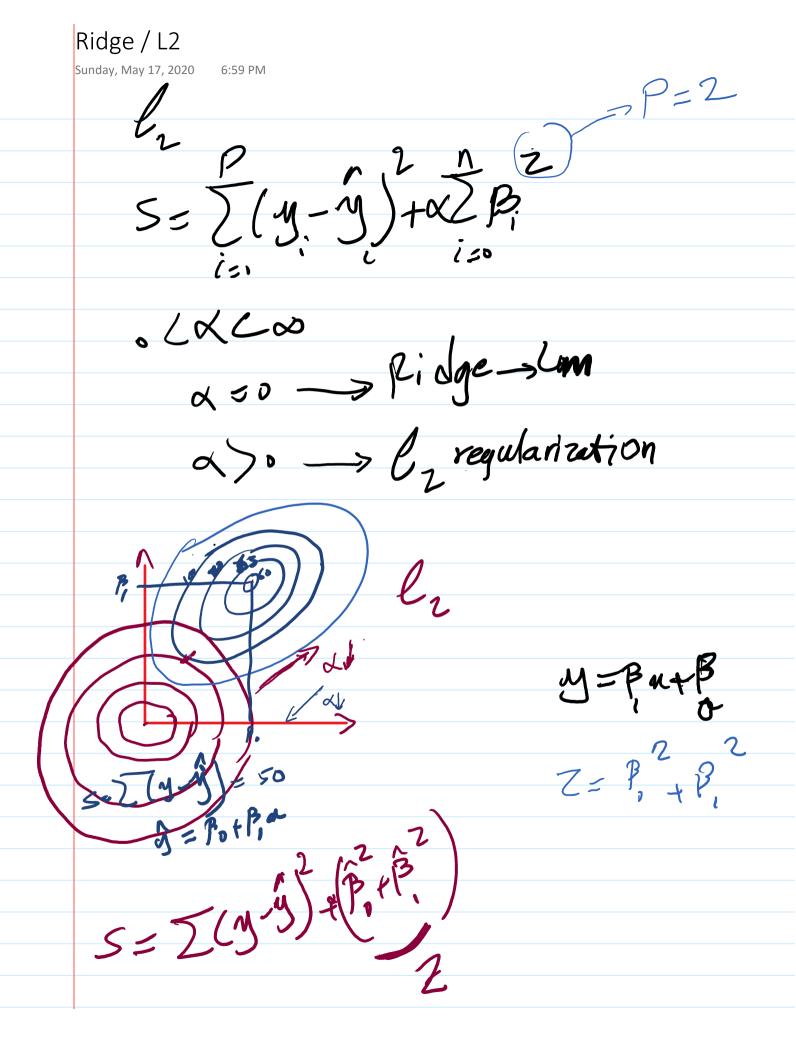
LM. Lp Regularization

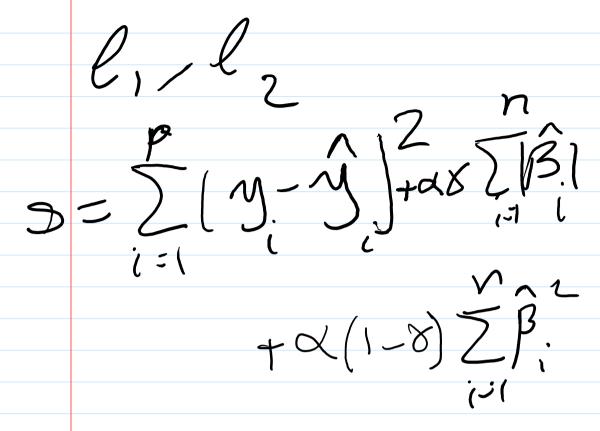
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L = lilli

