$$\frac{1}{9} = \frac{1}{1} \frac{1}{9} \frac{1}{9} = \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}$$

 $\| \theta - (\delta, 0) \|_{2} = 1 - 20 + 0 + \delta$ $\| \theta - (\delta, 0) \|_{1} = 1 - \delta + \delta$

$$||\theta - (0, \delta)||_{2}^{2} = 1 - 28 + \delta^{2} + \xi^{2}$$

$$||\theta - (0, \delta)||_{2}^{2} = 1 - \delta^{2} + \xi$$

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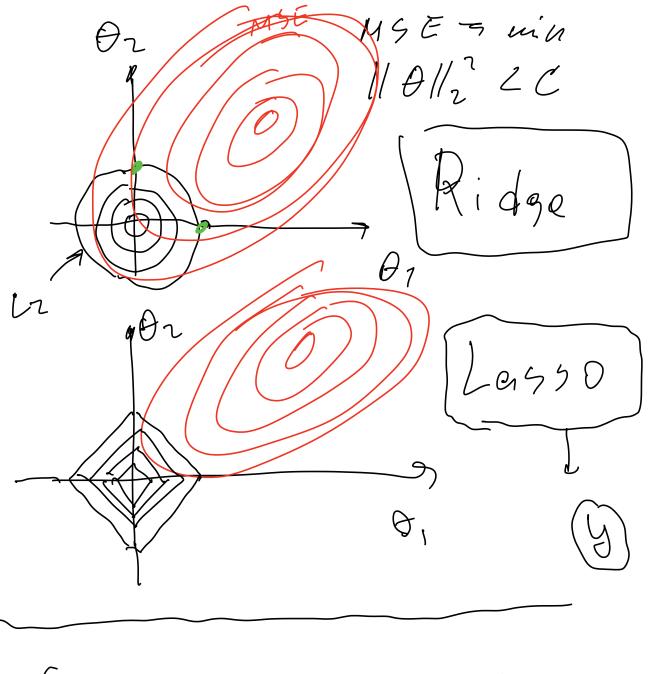
$$||\theta - (0, \delta)||_{2}^{2} = 1 - \delta^{2} + \xi$$

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$$||\theta - (0, \delta)||_{2}^{2} = 1 - \delta^{2} + \xi$$

$$||\theta - (0, \delta)||_{2}^{2} = 1$$



Cpeque & mogontes. Huzue 1 Norrobni ungenc

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MLE, MAP $(y(\theta))$ like lihood. 90000 σ^{0} 00:00 Porterior

- max likelihood p (y 10) argmax P (y/4) (O, ~2) $(y_i | \theta, \delta^2)$ $\mathcal{N}(0,6^2) = \frac{2}{6\sqrt{2\pi}} \mathcal{Q}$ $-\left(y;-x;\theta\right)^{2}/2\sigma^{2}$

$$0.6 \qquad \log a.6 = \log a + \log b$$

$$1.6 \qquad \log a + \log a$$

$$1.$$

$$\frac{\mathcal{E}}{\mathcal{E}} (y; -x; \theta)^{2} - 3 \min_{\theta} N$$

$$y = X\theta + 2 \qquad MSE$$

$$MAP$$

$$\frac{\mathcal{E}}{\mathcal{E}} (y; -x; \theta)^{2} - 3 \min_{\theta} N$$

$$MAP$$

$$\frac{\mathcal{E}}{\mathcal{E}} (y; -x; \theta)^{2} - 3 \min_{\theta} N$$

log P(y 10) + Log P(0) > wax

like lihood prior L2, L1 Dr M(0, 32) Dr Laplace MSE + N SO; = MAP G MSE + > 2 101 = MAP L1 p(y|X) = p(x) p(x) $p(y) \cdot p(x|y) \neq p(y) \cdot p(x^{1}, x^{2}, ..., x^{n}(y))$

