$$p(\theta | x) = c\,\pi(\theta)\,\mathcal{L}(x|\theta)$$

regression:

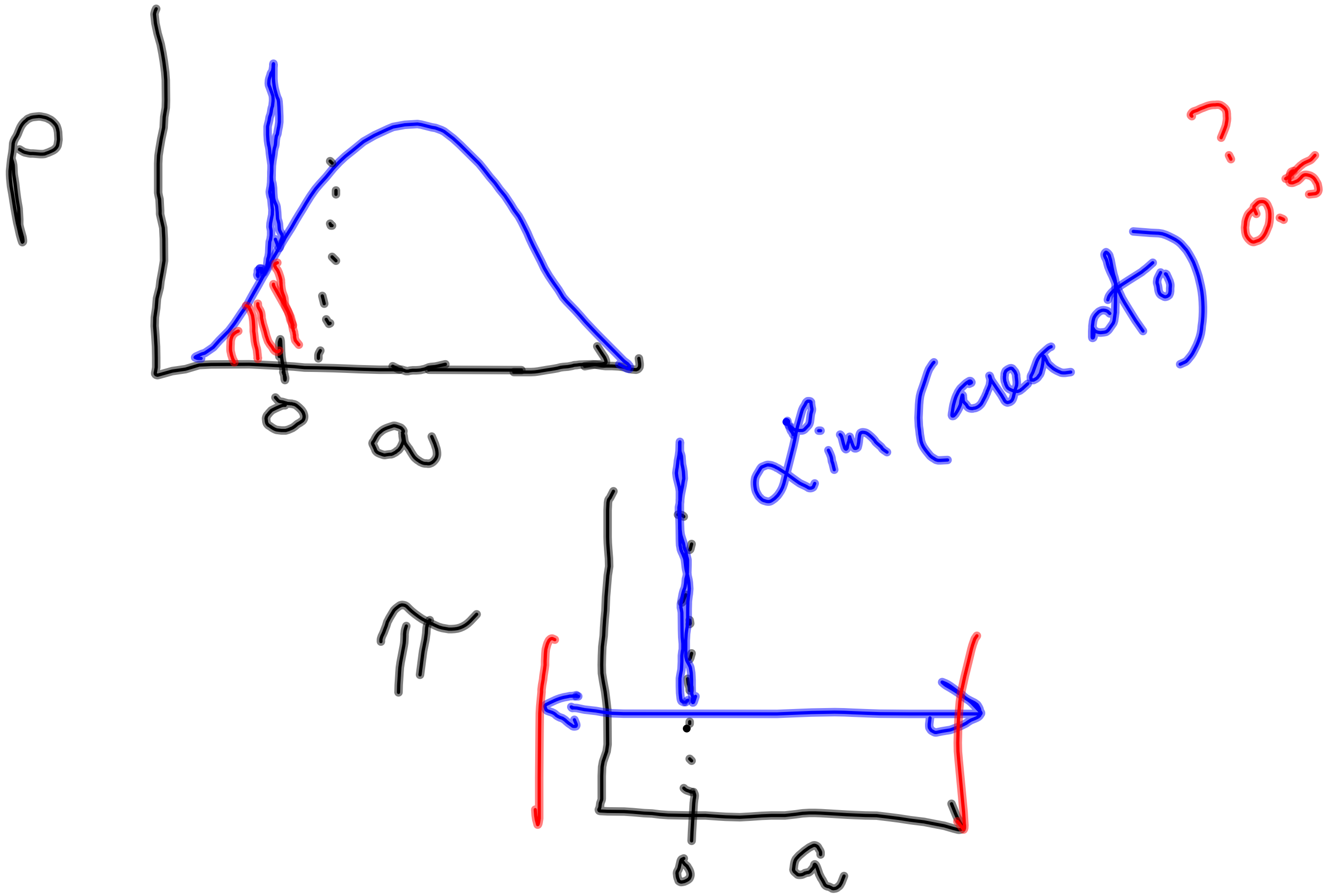
$$y_x = a x^2 + b x + c + \varepsilon$$

$$\sigma_\varepsilon^2$$

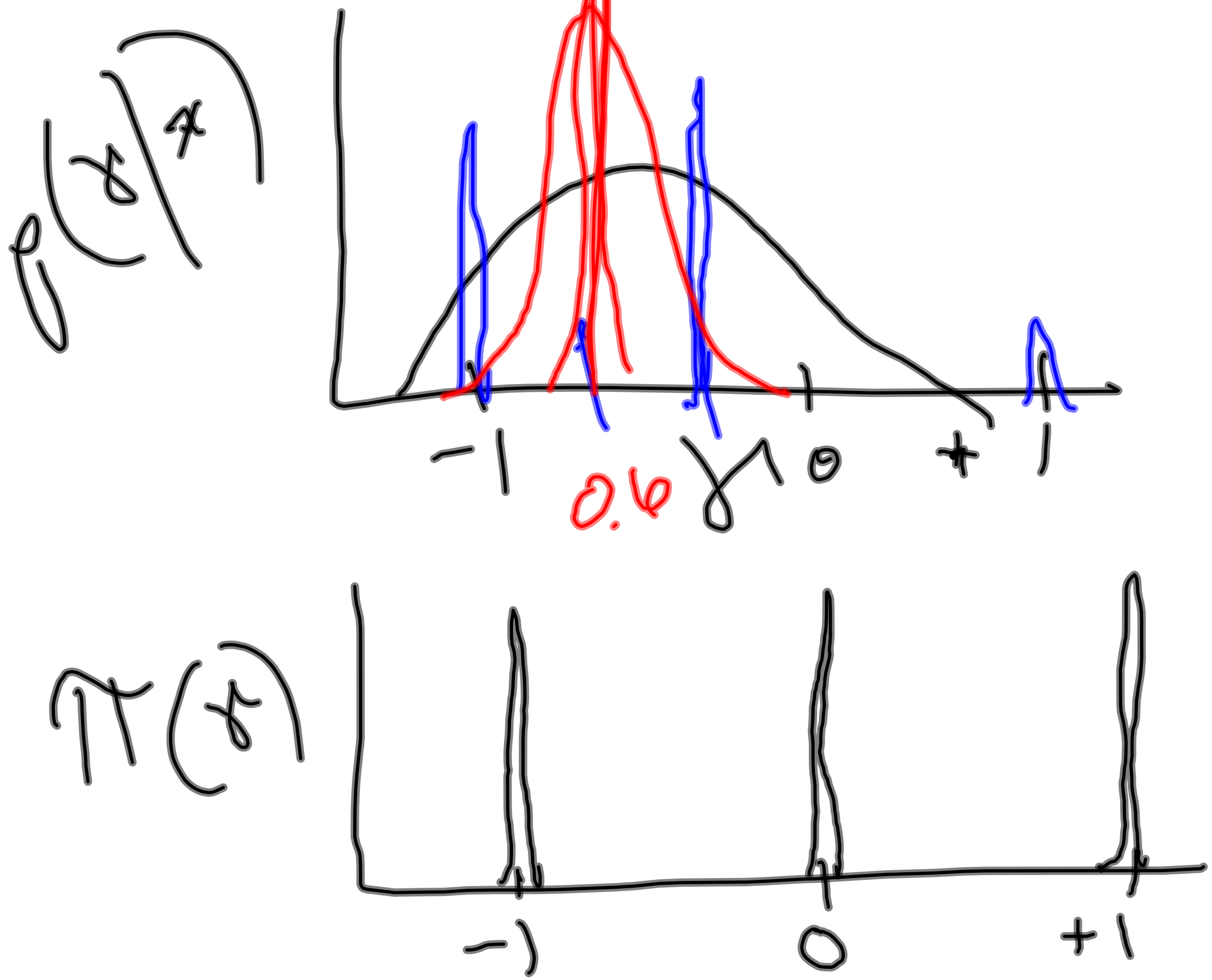
Conventional vague prior:

$$\pi(\sigma_\varepsilon^2) \propto \frac{1}{\sigma_\varepsilon^2}$$

Bayesian interest is on posterior marginal for a



"Alternative" Models



"preposterior analysis"