Latex

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R Markdown

$$p(\theta|\mathbf{x}) = \frac{p(\mathbf{x}|\theta)p(\theta)}{p(\mathbf{x})}$$

$$p(\theta|\mathbf{x}) = \frac{\ell(\theta|\mathbf{x})\pi(\theta)}{\int \ell(\theta|\mathbf{x})\pi(\theta)d\theta}$$

$$\ell(\theta|\mathbf{x})$$

$$\pi(\theta)$$

$$p(\theta|\mathbf{x}) = \frac{\ell(\theta|\mathbf{x})\pi(\theta)}{\int \ell(\theta|\mathbf{x})\pi(\theta)d\theta}$$

$$\theta_1^{(1)} \sim p(\theta_1 | \theta_2^{(0)}, \theta_3^{(0)}, \dots, \theta_k^{(0)}, y)$$

 $\pi(q, p) = \pi(q|p)\pi(p)$

$$H(q, p) = -\log \pi(p|q)\pi(q)$$
$$= -\log \pi(p|q) - \log \pi(q)$$
$$= -K - V$$