

Derivatives

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1 Useful Derivatives

From Another Walkthrough of Variational Bayes.

$$\begin{aligned}\frac{d}{dx}x &= 1 \\ \frac{d}{dx}\log(x) &= \frac{1}{x} \\ \frac{\partial}{\partial q}\int q(x)dx &= 1 \\ \frac{\partial}{\partial q}\int \log q(x)dx &= \frac{1}{q(x)}\end{aligned}$$