

Date _____ No _____

$$J(w) = -\frac{1}{m} \sum_{i=1}^m \log P_w(y^{(i)} | x^{(i)})$$
$$= \frac{1}{m} \sum_{i=1}^m L(\underline{w}, x^{(i)}, y^{(i)})$$

where $L(\underline{w}, x, y) = -\log P_{\underline{w}}(y|x)$