Exercise I

Show: $L(x,\theta,\phi) = \text{Eg}_{\theta}(2|x) \left[\log \frac{P_{\theta}(x,z)}{P_{\theta}(2|x)}\right] \leq \log P(x)$

(1) $\frac{d(v, \theta, \delta)}{d(v, \theta, \delta)} = \frac{1}{\log \frac{\log (v, \delta)}{\log (v, \delta)}} = \frac{1}{\log \frac{\log (v, \delta)}{\log (v, \delta)}} = \frac{1}{\log \frac{\log (v, \delta)}{\log (v, \delta)}} = \frac{1}{\log \log (v, \delta)} = \frac{\log (v, \delta)}{\log (v, \delta)} =$

Exercise 2

If $\widehat{P}_{N}(X_{t+1})$ is on unbiosed estimator show of p(x).

Prove: bound $d_{N}(X_{t}p) \leq \log p(x)$. $d_{N}(X_{t}p) = \mathbb{E}[\log \widehat{p}_{N}(X_{t})] \leq \log \mathbb{E}[\widehat{p}_{N}(X_{t})] \leq \log \mathbb{E}[\widehat{p}_{N}(X_{t})]$ unbiosedness.