1d sampling (continuous)
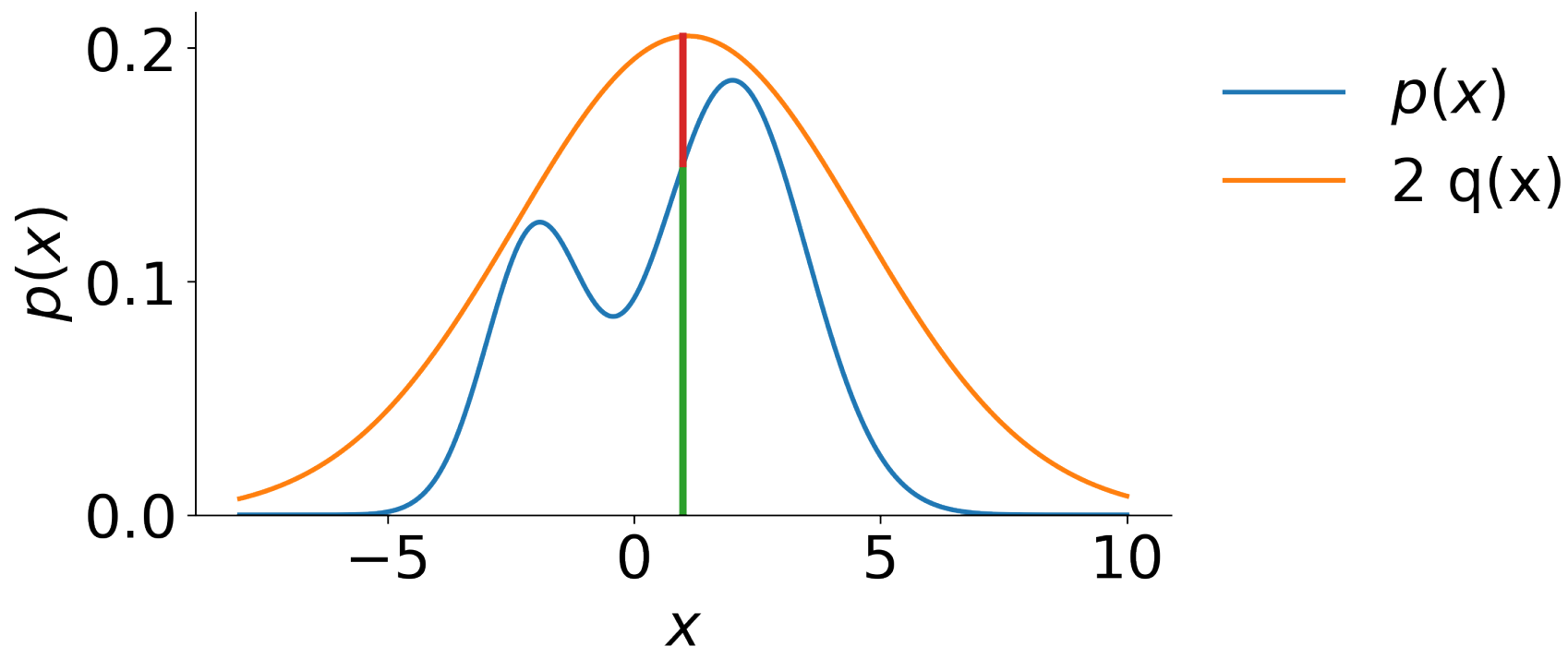

$$\widetilde{x} \sim q(x) \qquad y \sim \mathcal{U}[0, 2q(\widetilde{x})]$$

Accept $\widetilde{x}$ with probability $\dfrac{p(x)}{2q(x)}$