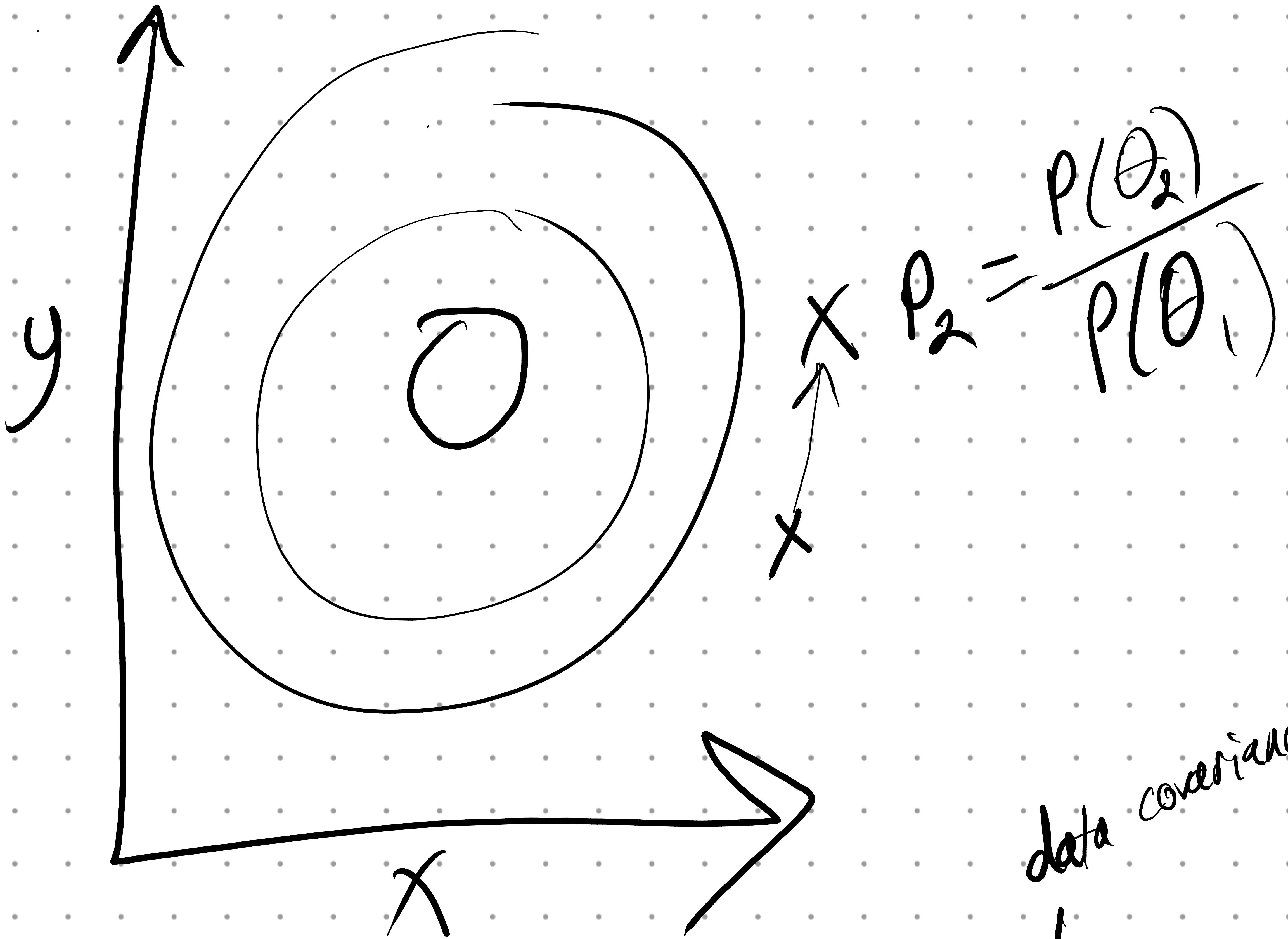


$$N = \frac{1}{\sqrt{2\pi\sigma^2 K}}$$



$$P_2 = \frac{P(\theta_2)}{P(\theta_1)}$$

data covariance

$$P(\theta | d) = N \exp \left[-\frac{1}{2} (d - M(\theta))^T C^{-1} (d - M(\theta)) \right]$$

$$r = d - M(\theta)$$

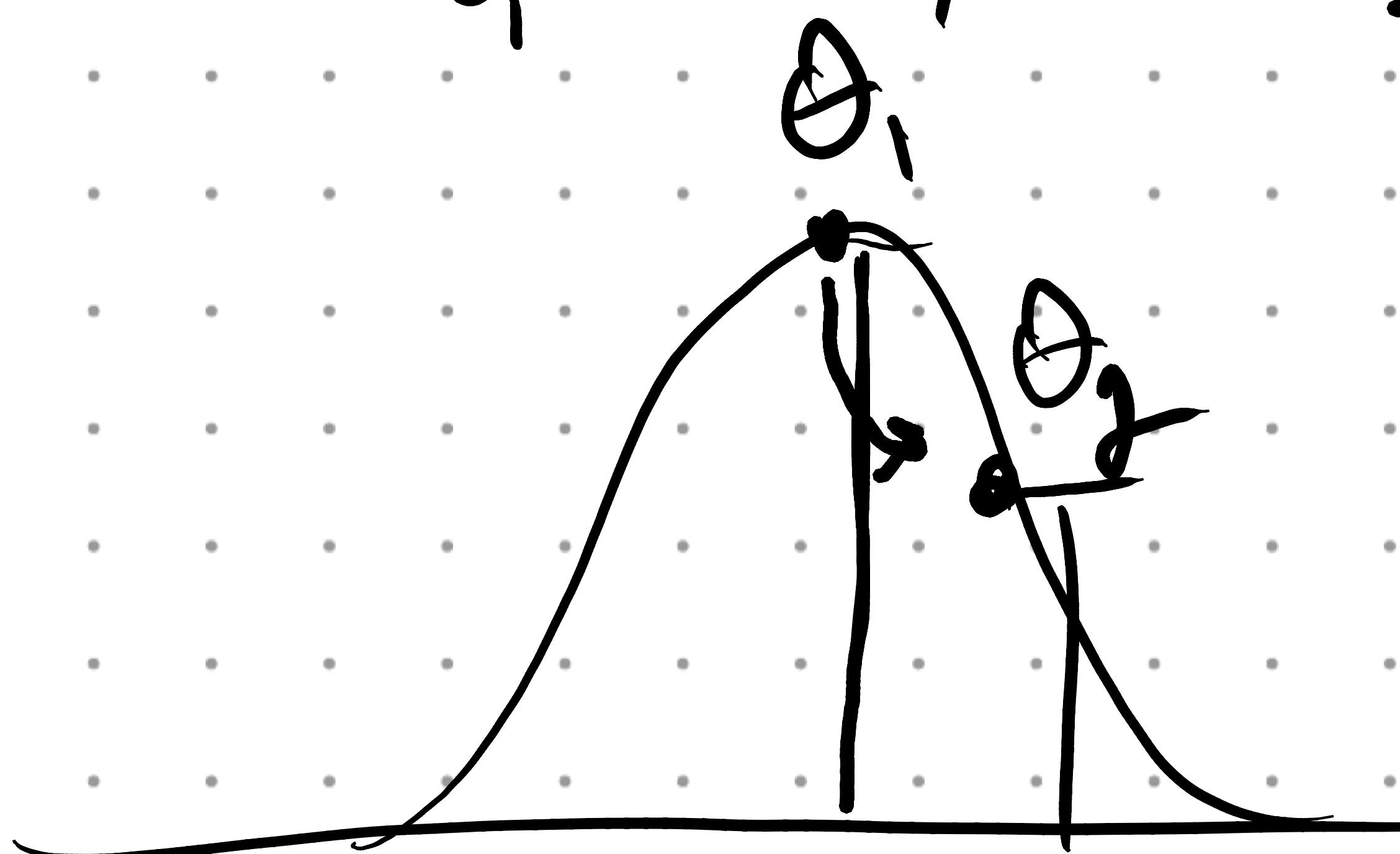
$$P(\theta | d) \propto \exp \left[-\frac{1}{2} r^T C^{-1} r \right]$$

$$C = diag(\sigma_1^2, \sigma_2^2)$$

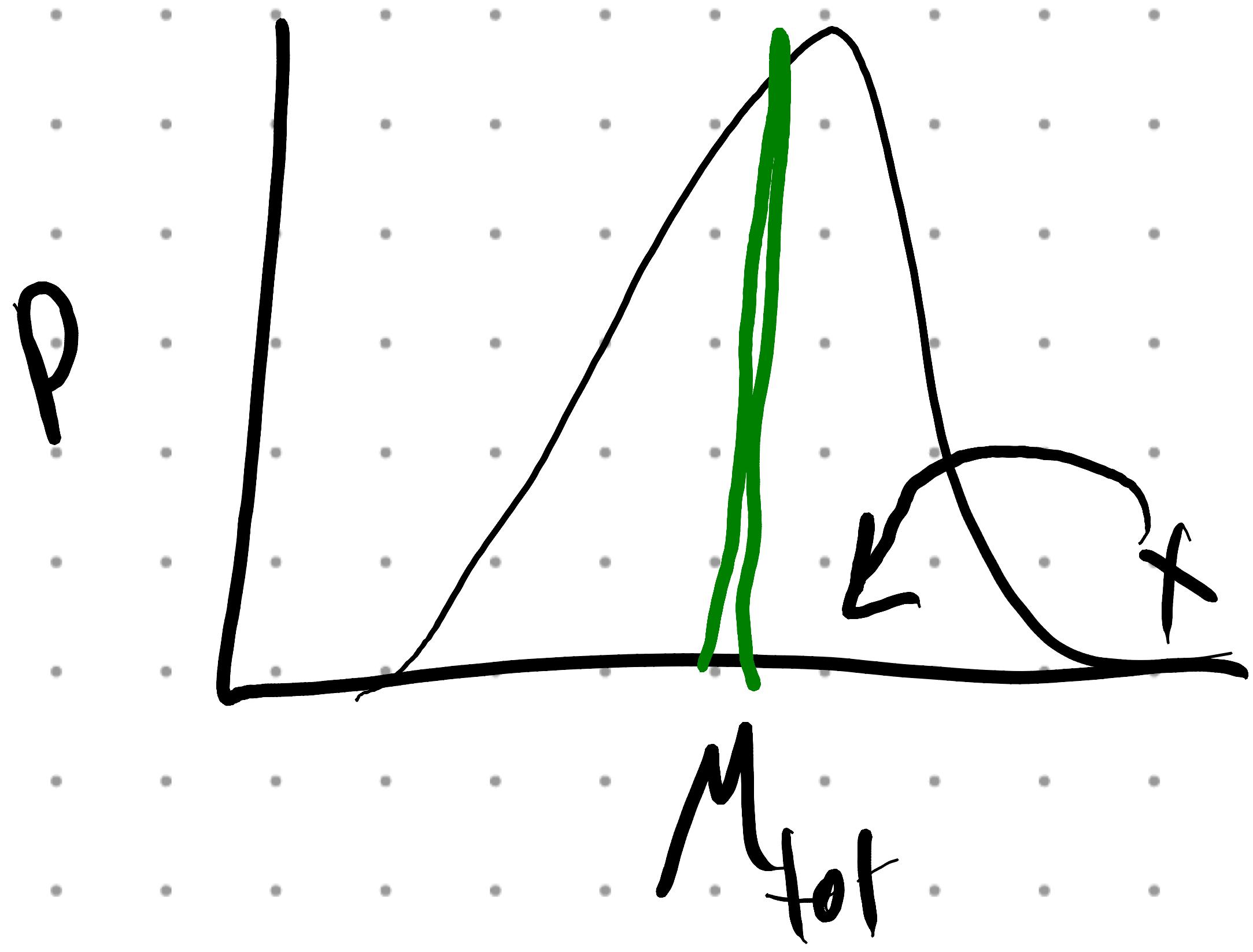
$$\ln P(\theta | d) \propto A - \frac{1}{2} r^T C^{-1} r$$

$$H = \frac{P(\theta_2 | d)}{P(\theta_1 | d)}$$

$$\ln H = r_{\theta_1}^T C^{-1} r_{\theta_1} - r_{\theta_2}^T C^{-1} r_{\theta_2}$$



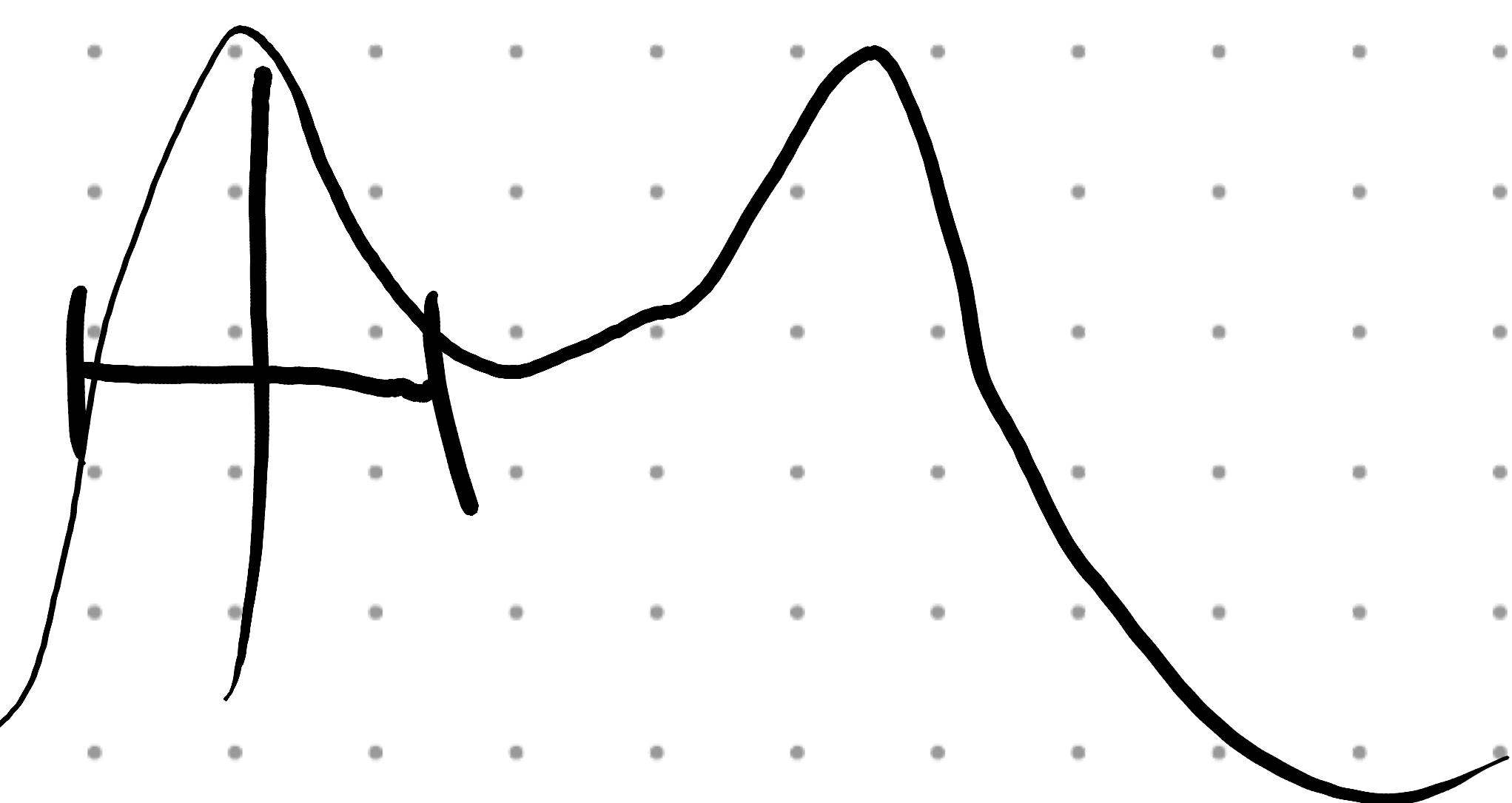
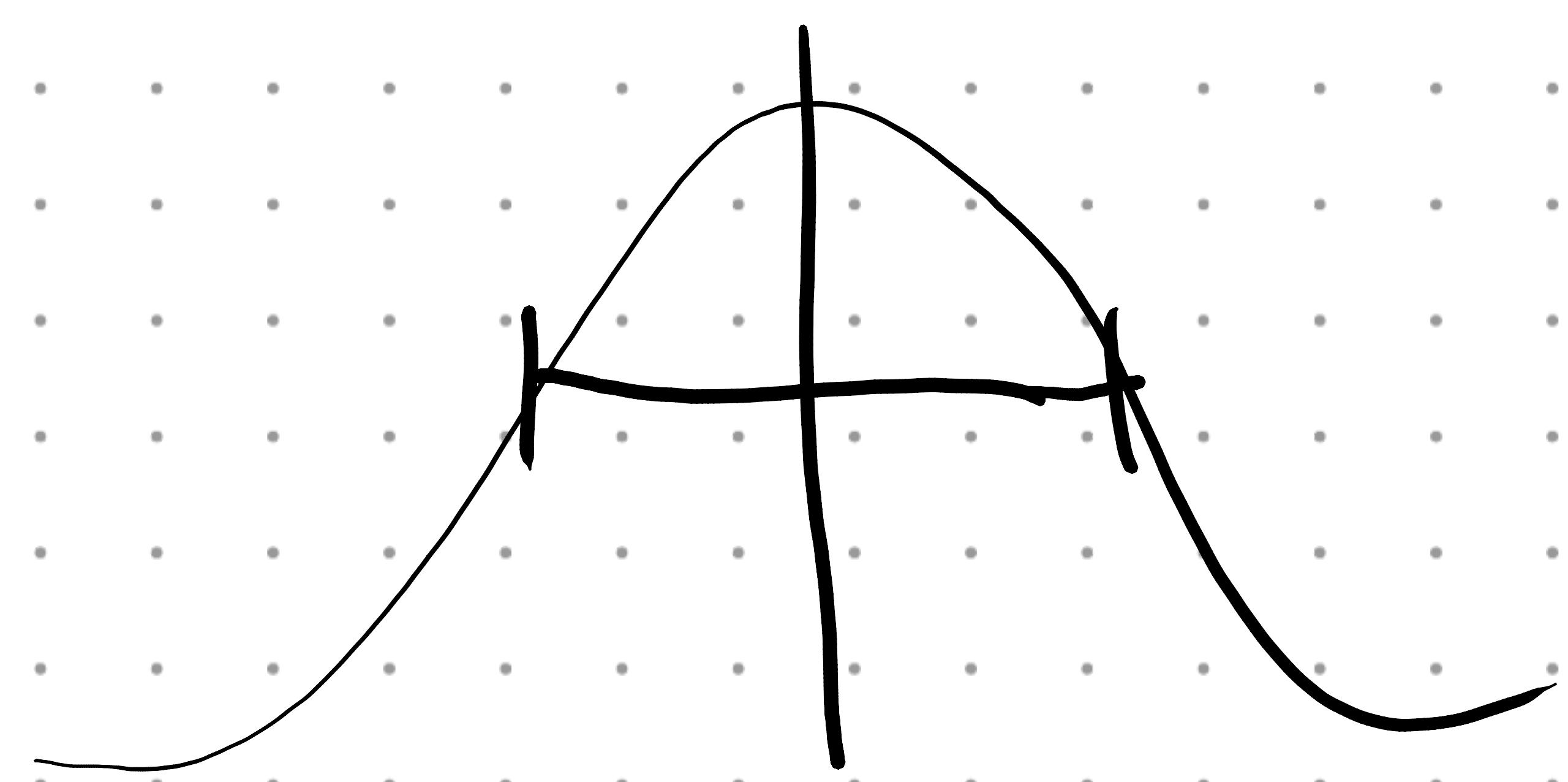
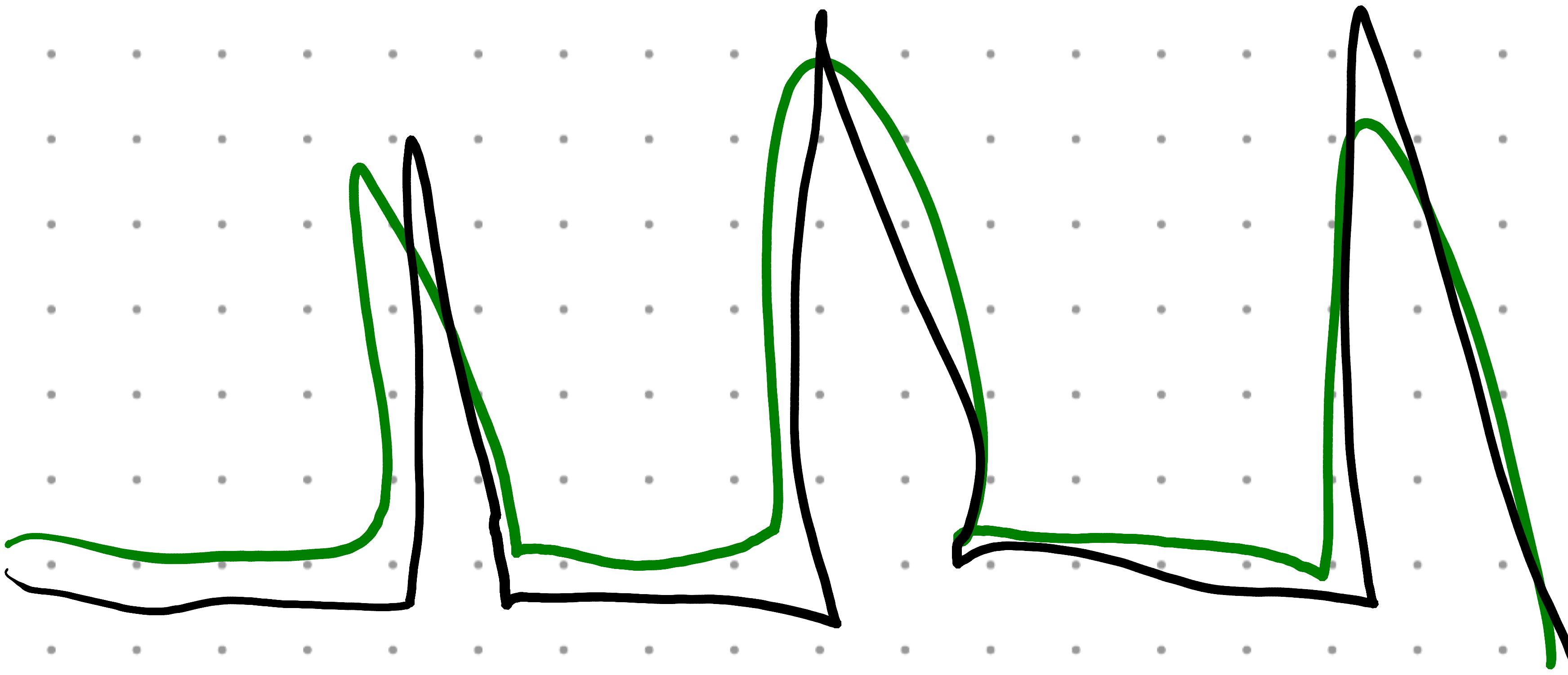
$$\begin{aligned} P(\theta_1 \rightarrow \theta_2) &= \\ &= 1 - P(\theta_2 \rightarrow \theta_1) \end{aligned}$$

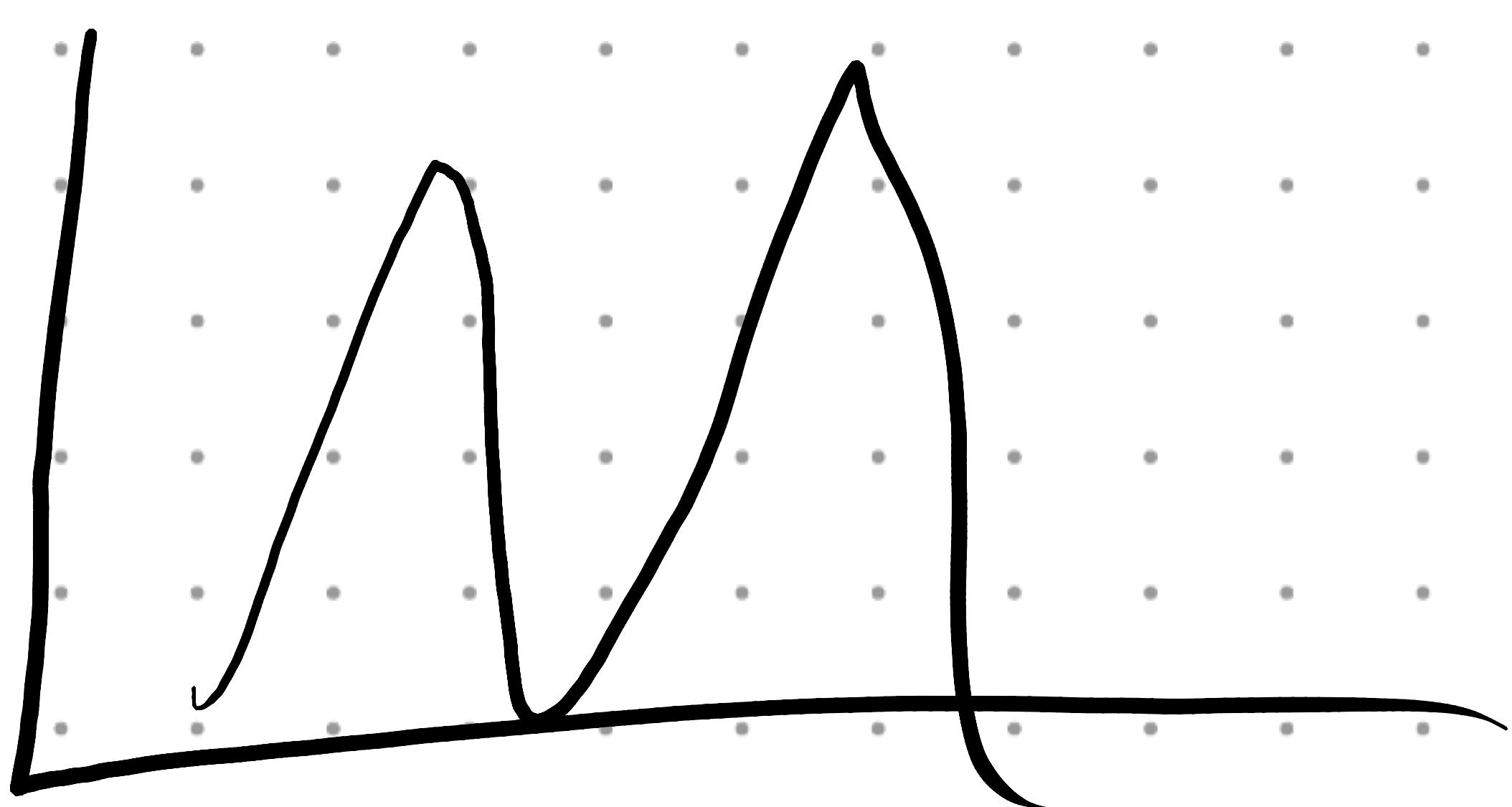
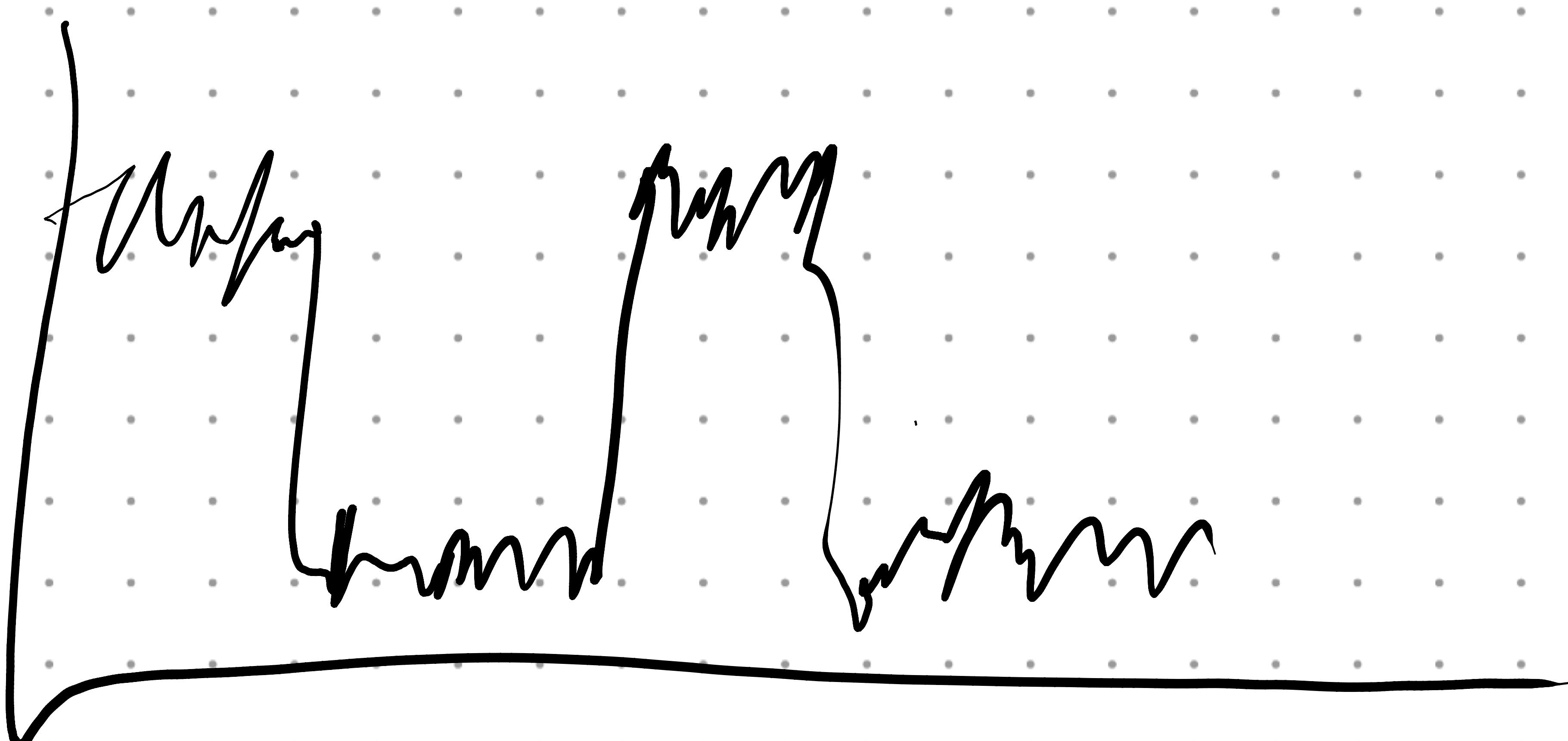
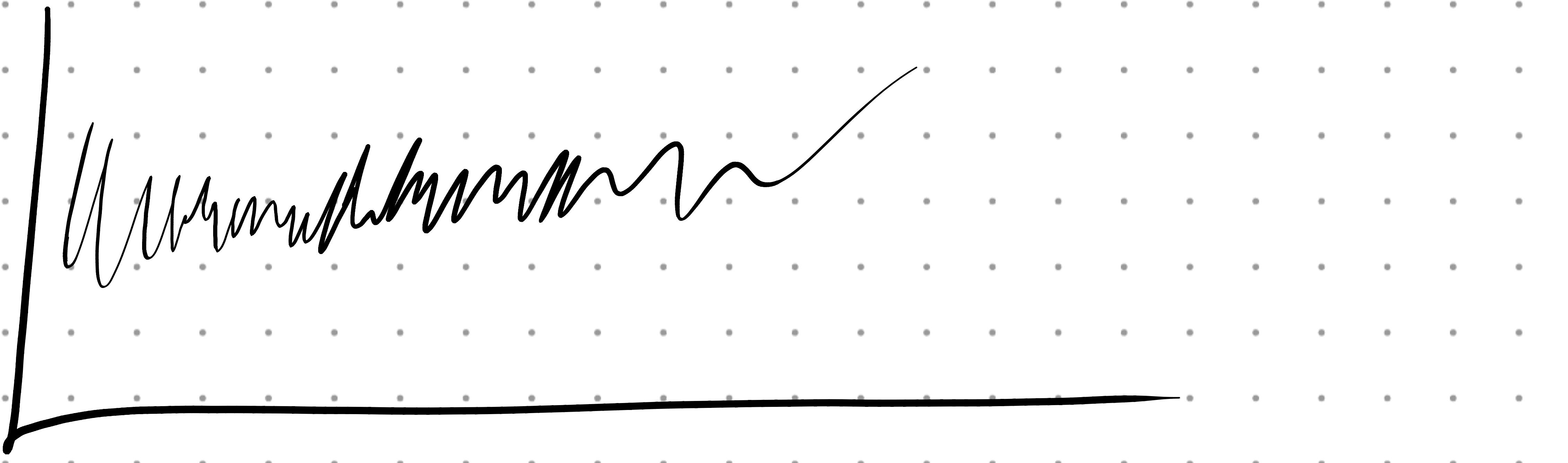


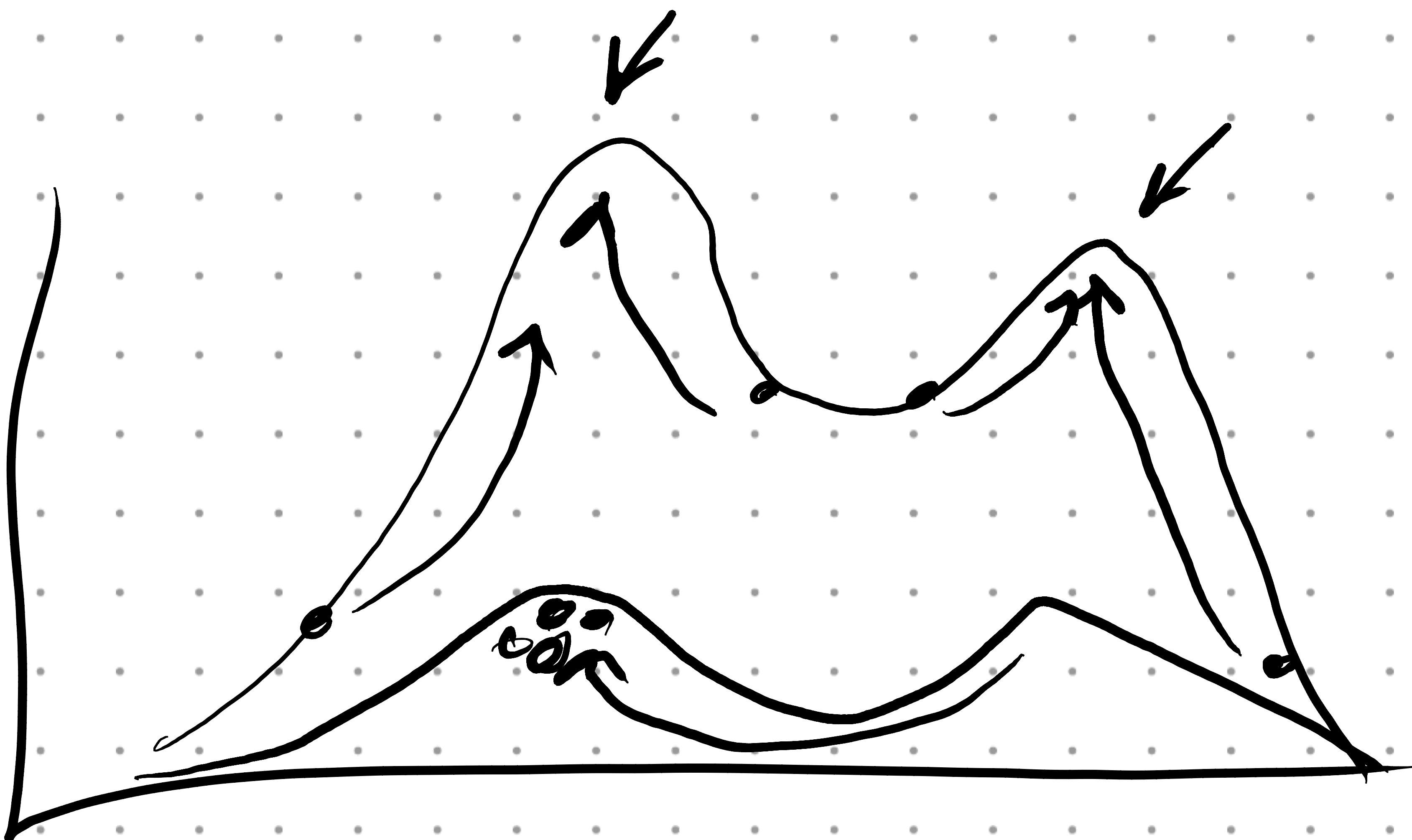
$$P(\theta|d) = \frac{P(d|\theta) P(\theta)}{P(d)} \leftarrow \begin{matrix} \text{likelihood} \\ \text{prior} \end{matrix}$$

↑
posterior

$$\frac{P(\theta_2|d)}{P(\theta_1|d)} = \frac{P(d|\theta_2) P(\theta_2)}{P(d|\theta_1) P(\theta_1)}$$







$$P(d|\theta) \underset{f_1, f_2}{\sim} T \in [1, \infty)$$

$$\frac{P(d|\theta_2)}{P(d|\theta_1)} = 0.1 \quad \begin{matrix} f_1, f_2 = (\text{corner, corner}) \\ \text{fig. 5a vs c} \end{matrix}$$

$$\left(\frac{P(d|\theta_2)}{P(d|\theta_1)} \right)^{\frac{1}{4}} = 0.1^{\frac{1}{4}}$$

