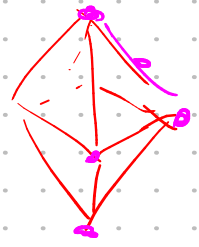
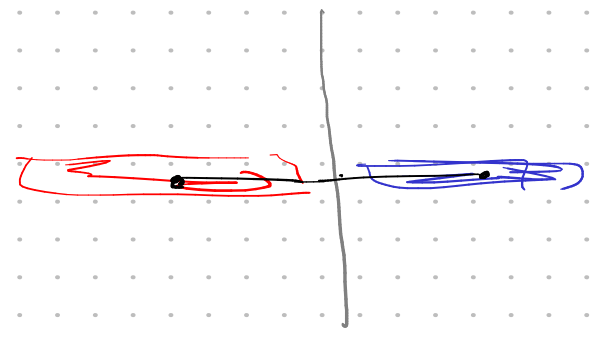
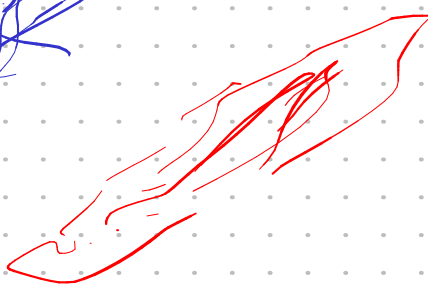


$$p(\mathcal{D} | \bar{w}) = \prod_n p(d_n | \bar{w})$$

$$p(y | \mathcal{D}) \quad \mathcal{D} = \{ y_n \}_{n=1}^N$$

$$p(\mathcal{D} | \theta) = \prod_n p(d_n | \theta)$$

$$p(\mathcal{D} | \theta, X) = \prod_n p(y_n | \theta, x_n)$$



$$p_i(x) = c \cdot e^{-c' \cdot (x - \mu_i)^2} \quad \mu_1 \dots \mu_d$$

$$y = w_1 \cdot c e^{-c'(x - \mu_1)^2} + \dots + w_d \cdot c e^{-c'(x - \mu_d)^2}$$

$$= \bar{w}^T \bar{\varphi}(x)$$

