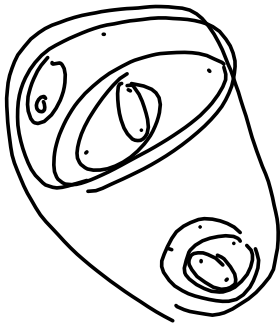
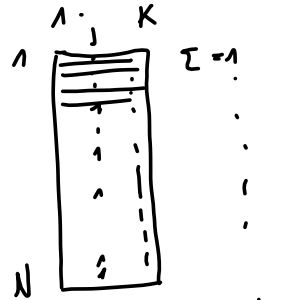
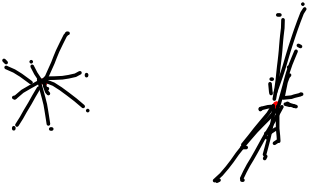


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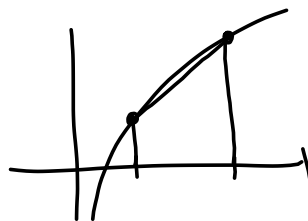
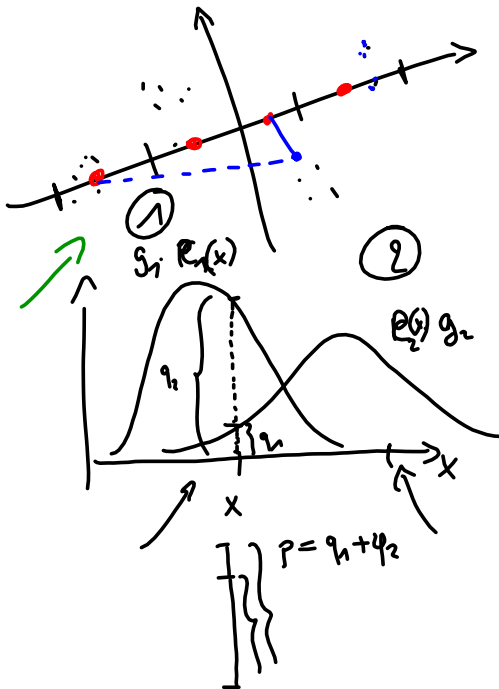
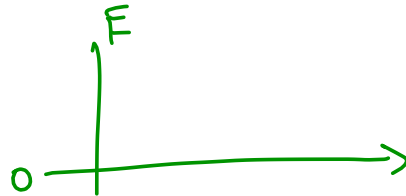
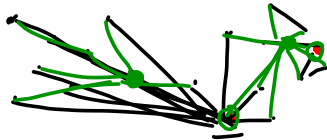


$$\frac{n \cdot \left(\frac{1}{M} \sum_{i=1}^M x_i \right) + x_{M+1}}{M+1} \rightarrow \frac{\sum_{i=1}^{M+1} x_i}{M+1}$$

$\vec{m}_{i, new}$



$\Sigma = \# \text{ points in cluster } j$



$$\log \left(e^{\frac{(x-\mu)^2}{2\sigma^2}} \right) \rightarrow \frac{(x-\mu)^2}{2\sigma^2}$$

$$\sum_i \frac{(x_i - \mu_j)^2}{2\sigma_j^2}$$

