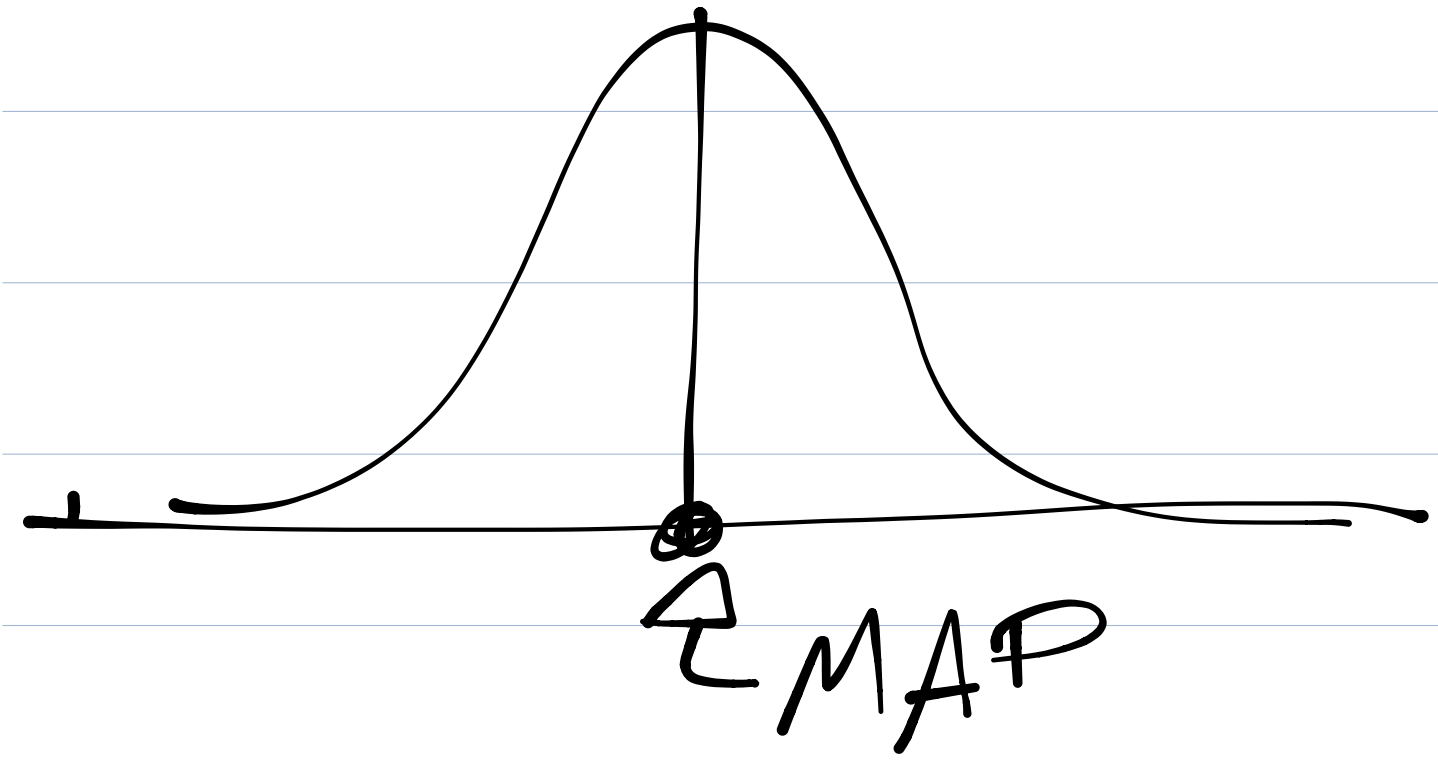
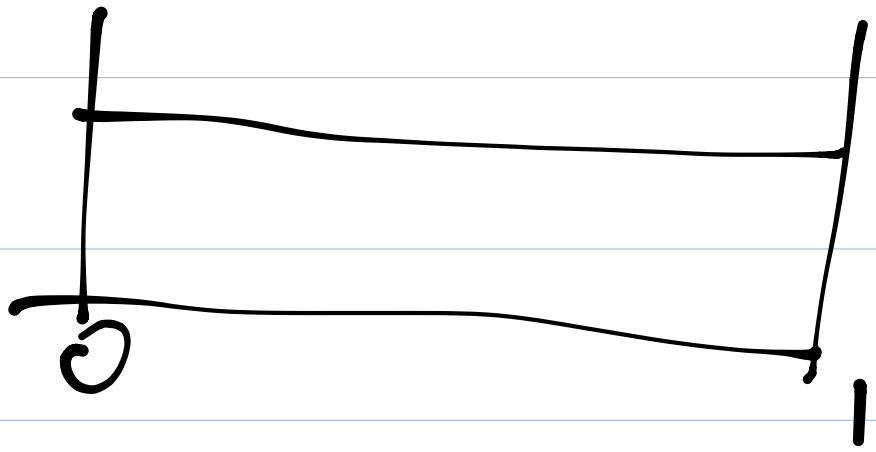
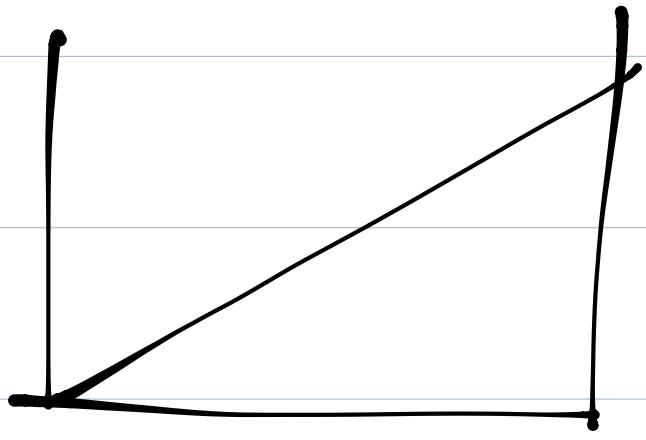
$$P(A) = \sum_{i=-\infty}^{n=\infty} P(A \mid x=i)$$



$$B(b \mid \nu=1, \beta=1) =$$



$B(2,1) =$



$$p(w|x) \propto \frac{p(x|w) \cdot \epsilon}{p(w)}$$

$$\sum_i -(y_i - \langle w, x_i \rangle)^2 +$$

$$= \sum (y_i - \langle w, x_i \rangle)^2 + \boxed{\frac{\alpha}{2} \|w\|^2}$$