$$Y_{\lambda} | X_{\lambda} = Ben(q_{\lambda}(X_{\lambda}))$$

$$\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right$$

$$L(\omega) = \pi P(\omega(x_i, y_i))$$

$$= \pi P(\omega(x_i) + P(x_i))$$

$$= \pi P(\omega(x_i) + P(x_i))$$

$$= \pi P(\omega(x_i) + P(\omega(x_i))$$

$$\Gamma_{\frac{1}{2}}(0) (1) = \mu \theta_{\frac{1}{2}}(1-0)^{\frac{1}{2}-\frac{1}{2}}$$

Aplying the analogy with
$$e^{-x} = e^{-x}$$

we get
$$L(w) = \prod_{x \in I} \left[q(x) d^{x} \left(\frac{1}{2} - q(x) \right)^{\frac{1}{2} - \frac{1}{2}} \right]$$

$$\times p(2e)$$

 $L(\omega) : \Pi \varphi_{\omega}(x_{i}, y_{i})$ $= \Pi \varphi_{\omega}(x_{i}, y_{i})$ $= \Pi \varphi_{\omega}(y_{i}|x_{i}) = \chi (x_{i}) = \chi (x_{i})$ $= \chi (x_{i}) = \chi (x_{i}) = \chi (x_{i})$ $= \chi (x_{i}) = \chi (x_{i}) = \chi (x_{i})$ $= \chi (x_{i}) = \chi (x_{i}) = \chi (x_{i})$ $= \chi (x_{i}) = \chi (x_{i})$ $= \chi (x_{i}) = \chi (x_{i})$ $= \chi (x_{i}) = \chi (x_{i})$

Bayes Somba.

· p(x,y) a comptèle like Cibred

· p(sely) p(y)

p(y1x) = p(x1y)p(y)
p(x).

Burmou, Ca madel

Then posterio

$$A_{n}^{2} = A_{n} \left(\left(\frac{1}{2} \alpha_{n}^{2} \alpha_{n}^{2} \right), C_{n}^{2} C_{n}^{2} \right)$$

$$C_{n}^{2} = C_{n}^{2} \cdot C_{n}^{$$

$$A'' = \left\{ \begin{array}{ll} \langle X' \rangle + 4 \, \text{se} & \text{se} \\ \langle X' \rangle + 4 \, \text{se} \\ \langle X' \rangle + 4$$

in (Be case print) = N(mg, Se)

p(w 1D) & exp(-1/9-0xwll fr
2

- 4 < 5⁻³ (w-mg), w-mg)

We want to show that $p(w 1D) _s = Gaussian.$

we show
$$p(\omega \mid D) \neq exp(-\omega^{T} A \omega)$$

$$+ b^{T} \omega)$$

$$+ chenc$$

$$5n^{-1} = 2A$$

$$5n^{-1} = b$$

$$p(\omega \mid D) \neq exp(-11y - d_{x} \omega \mid d_{x} d_{x})$$

$$- 2 < 5^{-1} (\omega - m_{x}), \omega - m_{x} > 0$$

$$+ < gd_{x}^{T} d_{x} + 5^{-1} (\omega - \omega), \omega > 0$$

$$+ < gd_{x}^{T} d_{x} + 5^{-1} (\omega - \omega) > \omega > 0$$

Sn= 18 t & t S-1

mn = 20 (B \$ x y + 2-1 ms).