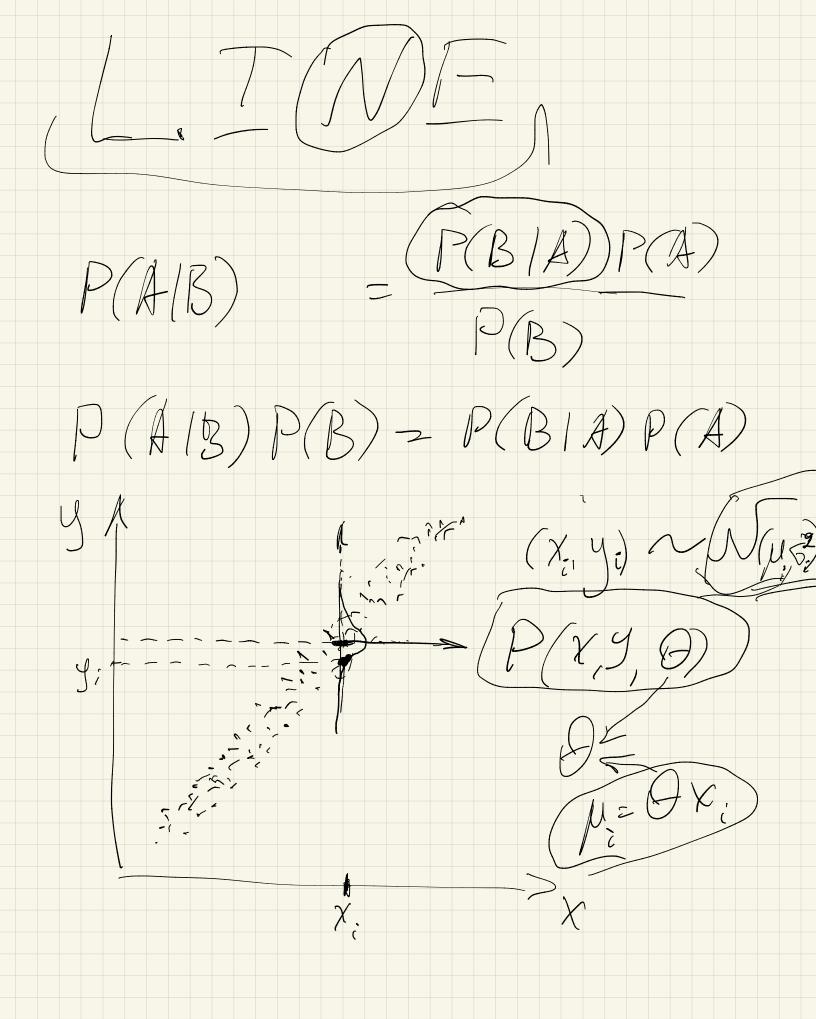


Lihear Zegres 3 ion $P(y|x,\theta) = \frac{1}{\sqrt{25^2}} e^{-(y-\mu)^2}$

(66, X, Y) = - y. N == ((hx+6, h, 6 = æ 2 g win & (h, 6, X,



 $P(y_i, x_i, \theta)$ $P(\theta|(X,Y)) P(X,Y) = P(X,Y|\theta) P(\theta)$ $P(\theta|X,Y) = P(X,Y|\theta) \cdot P(\theta)$ $P(\theta|X,Y) = P(X,Y|\theta) \cdot P(\theta)$ $\mathcal{N}(X,\mathcal{Y})$ P(X,J/Q) = [] P(X: Ji(Q)) Cindepenbence) P(X, y, (B) = - (y, - Mi) 2 252 $M_{i} = Q \times_{i}$ $b + b \times$ $x = d \cdot_{i} \times_{j}$ T(()(() 1) (() 5)

$$X = \{1, X, X_2, X_3, X_4\}$$

$$Q X = Q_0 + Q_1 X_1 + Q_2 X_2 + Q_3 X_4 + Q_3 X_4$$

$$L, \qquad M_1 = Q_1 X_2 + Q_3 X_4 + Q_4 X_4$$

$$T \qquad P(X, Y|Q) = \prod_{i=1}^{2} \frac{Q_i - Q_i}{\sqrt{2\pi G_i^2}}$$

$$N = \frac{Q_i \cdot Q_i \cdot Q_i}{\sqrt{2\pi G_i^2}}$$

$$P(X, Y|Q) = \prod_{i=1}^{2} \frac{Q_i \cdot Q_i}{\sqrt{2\pi G_i^2}}$$

$$Q_i \qquad Q_i \qquad Q$$

 $= \frac{\lambda}{2\pi G^{2}} \cdot \frac{(y - \theta x_{i})^{2}}{2G^{2}} =$ $= \sum_{i=1}^{N} m_{i} + \sum_{i=1}^{N} m_{i} - (y_{i} - Q_{X_{i}})^{2}$ $= \sum_{i=1}^{N} m_{i} \sqrt{276^{2}} + \sum_{i=1}^{N} m_{i} e^{-\frac{1}{2}}$ D= argmax P(X, Y10)= $= 029max \left(\frac{2}{2} lm + \frac{2}{275^{2}} \right) + \frac{2}{1-21} \left(-\frac{(y_{i}-\theta y_{i})^{2}}{25^{2}} \right)$ $= \frac{\sqrt{(y_i - Qx_i)^2}}{25^2}$ $(=) \quad \text{aced min} \quad (=) \quad (=$

 $\frac{1}{2}\left(y_{i}-y_{i}^{\prime}\right)^{2}$ $y = \mu = 1$ O-bias 2 e 1x-m/ 7