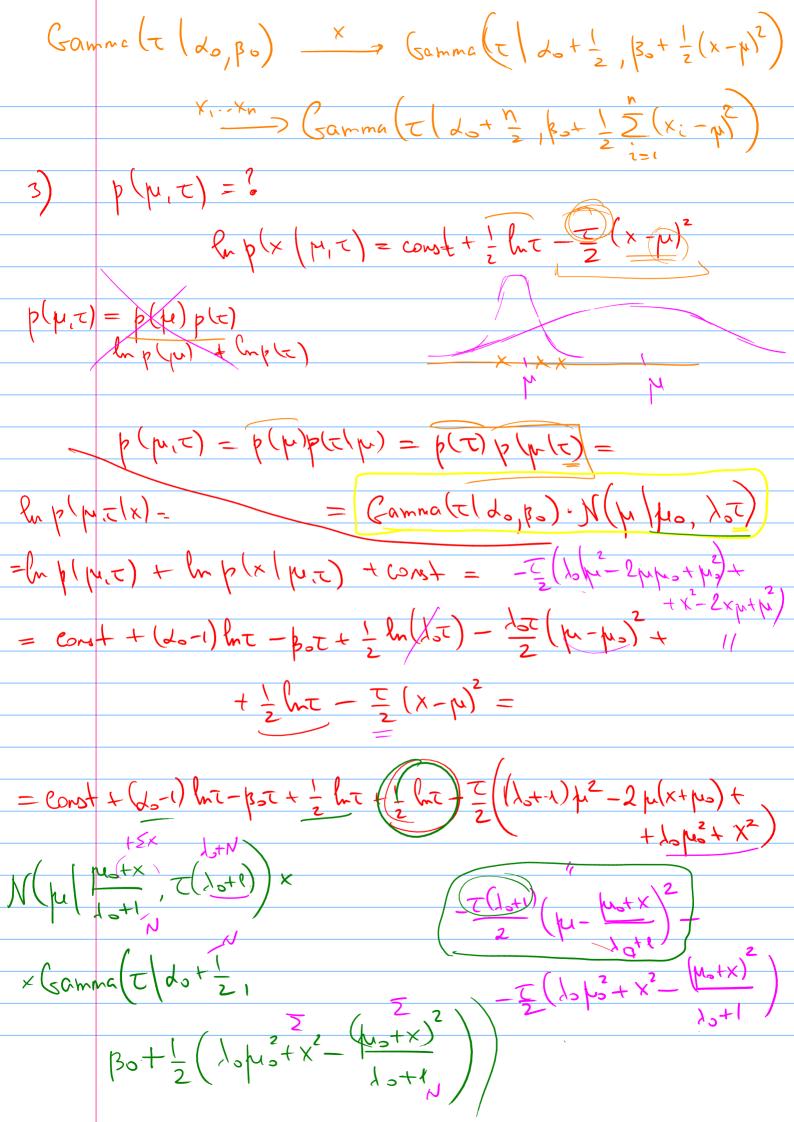
$$p(x | \mu, \sigma) = \sqrt{\frac{1}{2\pi\sigma^2}} e^{-\frac{1}{2\sigma^2}(x-\mu)^2}$$

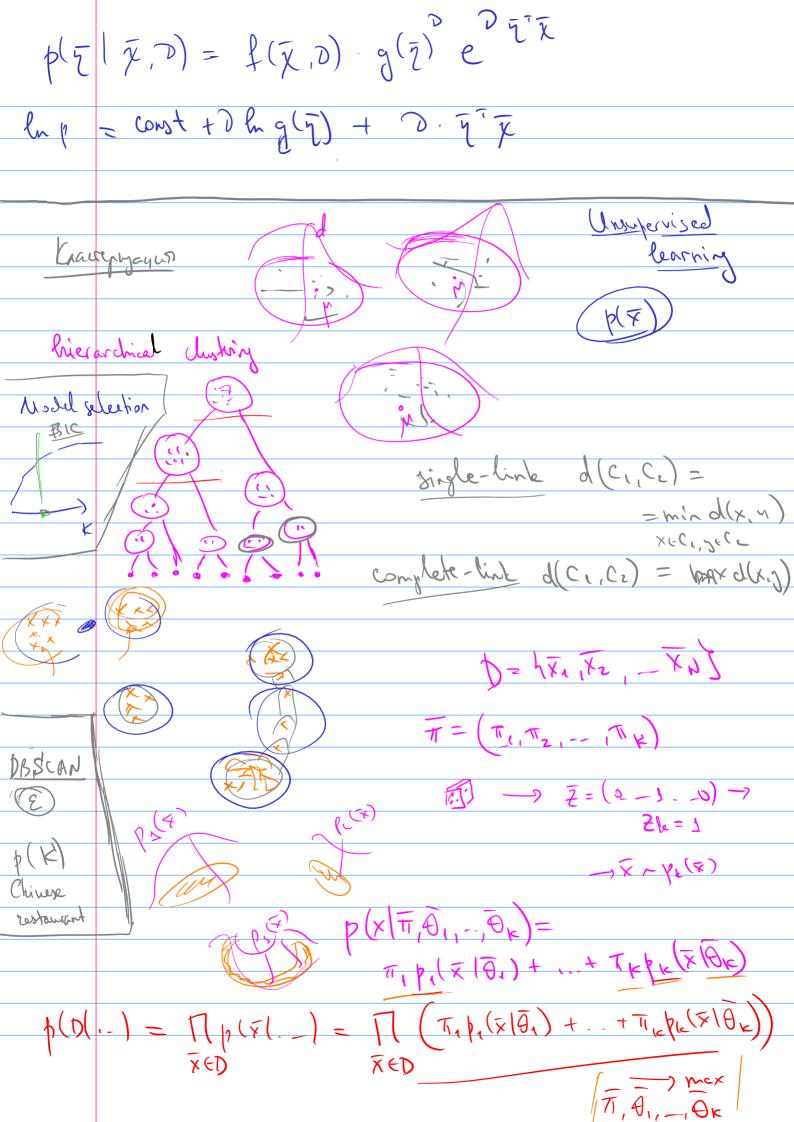
$$p(x | \mu, \tau) = \sqrt{\frac{1}{2\pi}} e^{-\frac{1}{2}(x-\mu)^2}$$

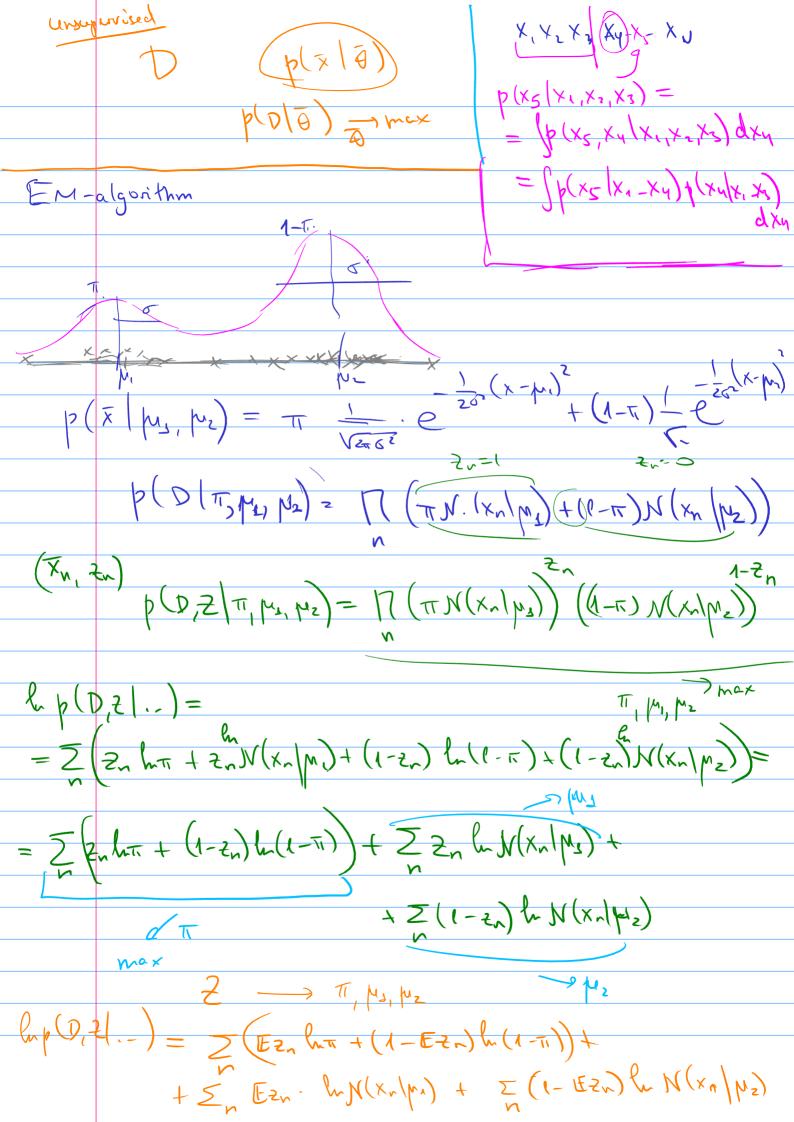
$$e^{-\frac{1}{2\pi}} e^{-\frac{1}{2\pi}} e^{-\frac{1}{2\pi}} e^{-\frac{1}{2\pi}} e^{-\frac{1}{2\pi}} e^{-\frac{1}{2\pi}}$$

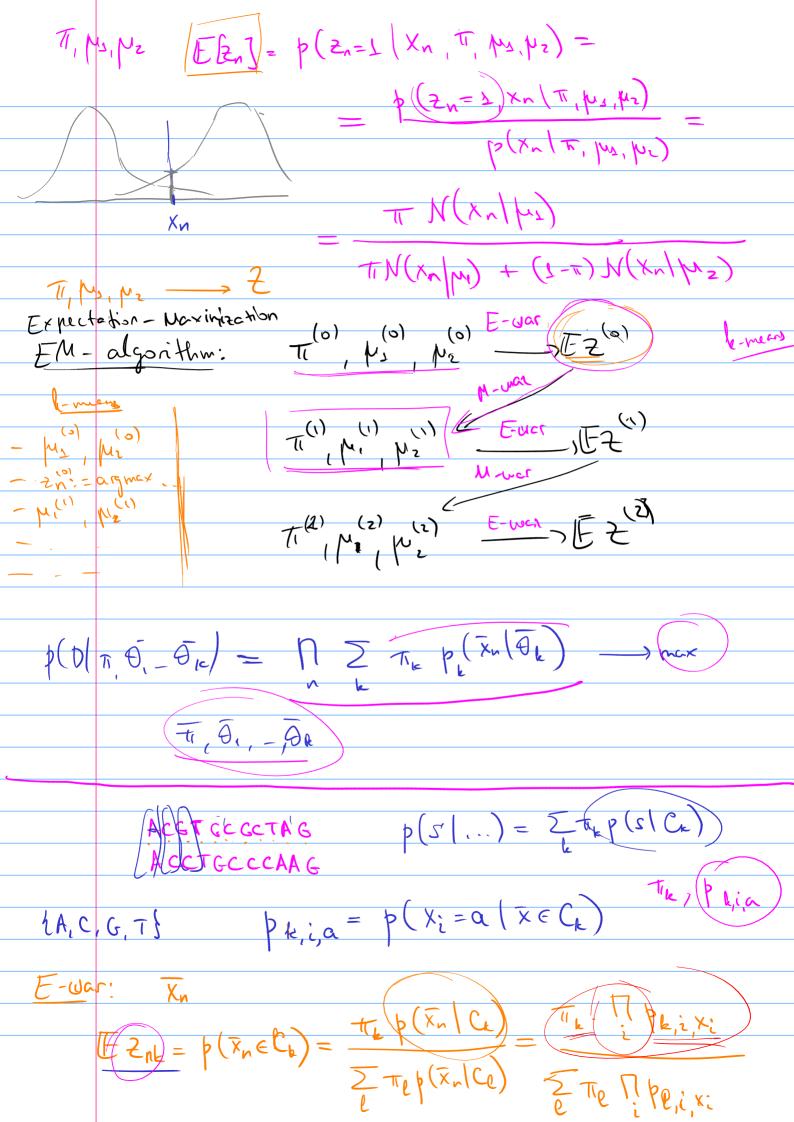
$$e^{-\frac{1}{2\pi}} e^{-\frac{1}{2\pi}} e^$$



p(p(T(X,-Xn) $p(x|x_{i-}x_{n}) = \int p(x_{j}u_{i}t|x_{i-}x_{n}) d\mu dt =$ = M Gamma(z). N(p/z). N(x/p,z) dpdz = = t-Student (x | pu mar, n) Then central parameters $p(\overline{x}|\overline{y}) = h(\overline{x}) \cdot g(\overline{y}) \cdot e^{-n\overline{y}} \overline{u}(\overline{x})$ $h(\overline{x}|\overline{y}) = h(\overline{x}) + hg(\overline{y}) + \overline{y} \overline{u}(\overline{x})$ $\frac{1}{2} \left(\frac{1}{2} \right) = \left(\frac$ $= (\overline{z})^{2} \qquad \overline{z}^{2} \qquad \overline{z}^$ Bernoulli. $p(x)\theta = \theta^{x}(1-\theta) = e^{x \ln \theta + (1-x) \ln (1-\theta)}$ $= (1-\theta) e^{\times (\ln \theta - \ln(1-\theta))}$ h(x)=1, $g(y)=1-\theta$, $y=\left(\ln\frac{\theta}{\ell-\theta}\right)$, u(x)=xlog-odds







M-was: $\pi, p = asgmax p(X, EZ|\pi, p)$ N K

The The Phi, xni

N 21 k=1

The Phi, xni

The Phi p ZZ(Eznk). hrigh ZZ(Eznk). Zhope,i, Kni Z mplia TE ly Ezne = ly Tret Z log Phixi - log (Z ...)

M. by (np. sum (-))