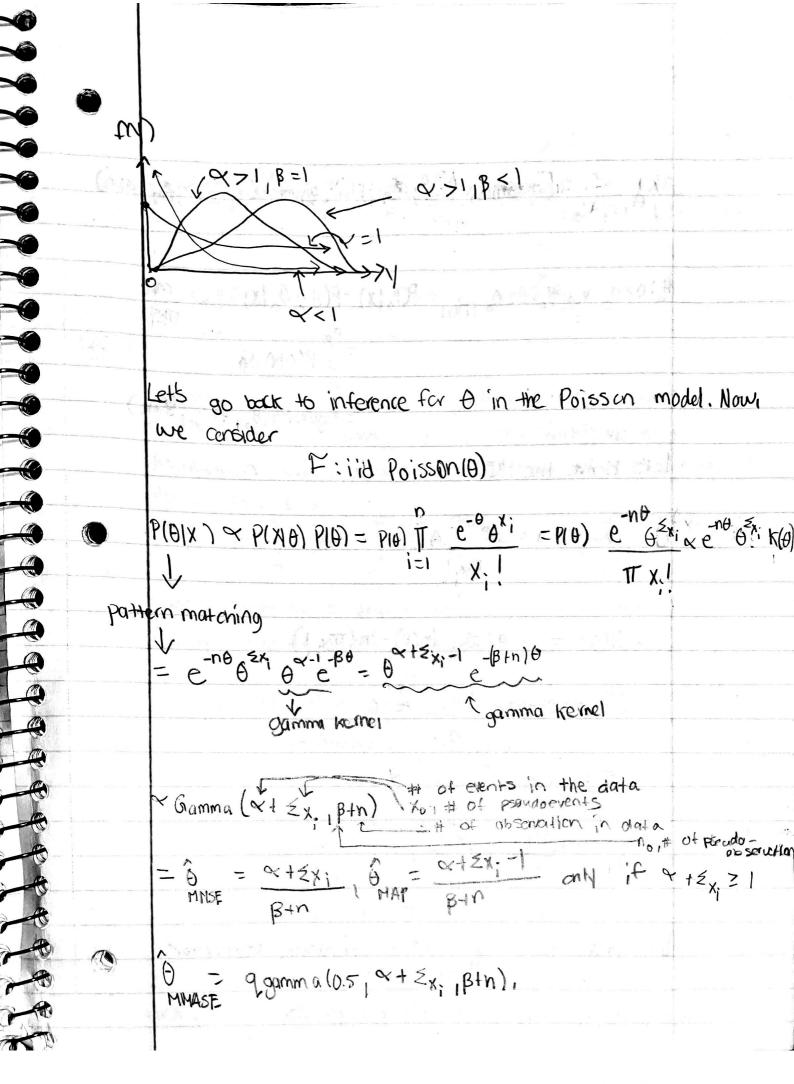


Let's figure out P(0) from K(0) $\int_{0}^{\infty} K(\theta) d\theta = \int_{0}^{\infty} e^{-\theta \theta} \theta d\theta = \int_{0}^{\infty} e^{-\theta \theta} d\theta = \int_{0}^{\infty} e^{-\theta} d\theta = \int_{0}^{\infty} e^{-\theta}$ $\Rightarrow P(\theta) = \frac{b^{q+1}}{\Gamma(a+1)} \theta^{q+1-1} e^{-b\theta} = Gamma (a+1,b)$ Back to probability class.... Y ~ Gamma (~18) = B 7 2-1 e-B1 ~ 1 e-B1 = K(4) Supp[y] = (0,00), Param space: < >0, B > 6 ECYJ = J Yf(y)dy = ... u-substitution = = mode[Y] = ... · carc = 4-1 if 4>1. MEDERS = 9 Such that of f(Y)dy = 1/2... no dosed form expression is possible so, = qgamma (a5,4,B) we use a computer to do numerical integration



$$R_{\theta,1-\alpha} = [q,gamma(\frac{x_0}{2}, z_{k_1}; Bin), q_{gamma}(1-\frac{x_0}{2}, \alpha_1z_{k_1}; Bin)]$$

$$= \int_{0}^{\infty} P(e|x) de$$

$$= pgamma(\theta_{e_1} x_1 z_{k_1}; Bin)$$

$$= pgamma(\theta_{e_1} x_1 z_{k_1}; Bin)$$

$$= pgamma(\theta_{e_1} x_1 z_{k_1}; Bin)$$

$$= (\theta_{e_1} x_1 z_{k_1$$

