Airignment 3 (2) Golden 1 :eda  $\Rightarrow \rho(x; d, \beta) = \Gamma(d+\beta) \times x^{d-1} \times (1-x)^{\beta-1}$ Ostrophion  $\Gamma(d) \cdot \Gamma(\beta)$ (volitor) = 1 0 (1-0)-2 Likelihood P(19; x, B)= TT TT TT (TI, O, K (1-0, ) ) yse P(O/D; x, B) x (Dix (1-0)x) (0-(1-6)B-1) P(D/D; a, B) & D; x, + a - 1 (1- b; k) : P(O/D; d, P) = Bela (7,+d, 13-2,+1) : 0 = argmax (P(0/D; d, B))  $\beta^{mff} = \frac{\chi_{fg} + d - 1}{2 + \beta - 2}$ 



