4.7 EXECTES Corcephral 2. In LDA method, thath p:1, the Bayerian Posterior is given by (C.12):  $R_{K}(X) = \frac{\pi \kappa \frac{2}{\sqrt{2\pi\sigma}} \exp\left[\frac{1}{2\sigma^{2}} (X - |Y_{R}|^{2})\right]}{\sum_{k=1}^{K} \pi k \exp\left[\frac{1}{2\sigma^{2}} (X - |Y_{R}|^{2})\right]} (4.12)$ trayes classifier astrign of to kenges such that Presques (x) is maximum; Krayes - argmax PK(K) = argmax ln PK(K) Coince la is montonically including. talk(x) blance the denominator of (4.11) is algmax ln Pk(x) = algmax ln { T/x = exp[== (x-rk)]} - ovg max lity - liter - = (x-MK)2 ( - ang max Shitk - 2 (2 - 2x/k + Mx) 7 = arg max & MMK - MK + butter Cinear discriminament