Problem 3

Tuesday, June 11, 2024 4:16 PM - QDA -p=1- class specific moon - normal distribution - class specific variance - Kth class from NCUK, ok) $-(4.16) = f_{\kappa}(X) = \lim_{\text{Varior}} \exp \left(-\frac{1}{\text{arrow}} (x - 4k)^2 \right)$ Prome Bigos class: FIET is not linear (4.15) = Pr(Y=K|X=x) = ru fx(x) = ru fx(x) = ru fx(x) = ru fx(x) thus (4,16) into (4,15) 4.17 = Tex Tareon exp $\left(-2\sigma_{K}^{2}\left(\chi-M_{K}\right)^{2}\right)$ Eta 14 Tarrok explade (x-MK)2) - MK + log (T4K)
- 20K based on Praslem 2 4.18 20 K

it 15 quadratic from the xxx2 term, not linear.