Problem 10 Tuesday, June 11, 2024 6:18 PM 4.32 log (Pr(Y=K| X=x)) p>1 P) 1 = shund Lovarianis prp matrix p2/ M1... Mu 7 scalos (432) want an, by, in forms of ractor
Mr UK Pr(Y=K|X=X) { Tik fich ZI=1 Mifich fulx)= Jamon Cxp (-J. (x-Mx)2) (2) Pr(Y=K|X=X)

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The fick) $= \log \left(\frac{12\kappa f_{K}(c)}{12\kappa f_{K}(c)} \right)$ $\frac{12\kappa f_{K}(c)}{12\kappa f_{K}(c)}$ -/ THE ARROW CAP (-2 FK (X-MK)2) log by (2) $= \frac{\log(\ln x)}{\ln x} - \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{\log(\ln x)}{\ln x} - \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ $= \frac{1}{2\sigma^2} (x - \mu_k)^2 + \frac{1}{2\sigma^2} (x - \mu_k)^2$ 2 log (rux) - 1/2 ((x-Mu)2 - (x-uk)2) = loy (The) - 202 ((x2- amx x + Mh2 = x2 + amx x - Mx2) = log (PK) - 202 (-2MKX+MK2+2MKX-MK2) = 101 (FCK) + MK -MK (X) + -MK² +MK² 9 = loy (Fex) + -Mu2+Mh2 2 based not
and and b= Mu-MX & based on (x)