KPYTAOB A.W. 505-207 A39 a) $\frac{1}{2} \sum_{i=1}^{2} (X_{i} - \overline{X})^{2} = \frac{1}{2} \sum_{i=1}^{2} (X_{i}^{2} - 2\overline{X}X_{i} + \overline{X}^{2}) = \frac{1}{2} \sum_{i=1}^{2} X_{i}^{2} - 2\overline{X} \cdot \frac{1}{2} \sum_{i=1}^{2} X_{i}^{2} - 2\overline{X} \cdot \overline{X} + \overline{X}^{2} = \overline{X}^{2} - 2\overline{X} \cdot \overline{X} + \overline{X}^$ = S2, 4. T. A. LOTA, I.d ±m, TETTAMPOBKA δ) παςτο ΕX=m, τογπα E(S2) = E(hΣ(X:-X)2) = E(hΣ((X:-m)-(x-m))2) = = E(n Σ(X:-m)2 - 2 (X-m). Σ(X:-m) + n (X-m)2) PACRPEN CROBEN, BEINEC ROHUANIE 3AMETUM: $h = \sum_{i=1}^{n} (X_i - m_i) = \sum_{i=1}^{n} (X_i - m_i)^2 - (\sum_{i=1}^{n} (X_i - m_i)^2) = \sum_{i=1}^{n} (X_i - m_i)^2 - (\sum_{i$ = E(\(\in \(\xi \) (X; -m)^2) - E((\(\xi \) - m)^2) = E, - E_2 MUNECIHOUS MAT. OF. onpereneue Aucherchu E: E(hE(X:-m)2) = h.nE(X-m)2 = E(X-m)2 = 52 ALH .- TO MAT. OX. $E_2: E(\bar{X}-m)^2 = E(\bar{h}\sum_{i=1}^{n}(X_i-m)^2 = E(\bar{h}^2\sum_{i=1}^{n}(X_i-m)^2 + \frac{2}{n^2}\sum_{i=1,j=1,i\leq 3}^{n}(X_i-m)(X_j-m)) =$ = h. E(h [(x:-m)2) + = EE(X:-m)(X;-m) = to2 + = EE(X:-m) E(X;-m) = to2 $E(X_i - m) = E(X_j - m) = 0$ EI, He 3 ABU CUMOUTO X: u X; TOTAR E(S2) = E, -E2 = 52- 52 = 10-1 52 (52 =) S2- CMEIGENHAR OYENTA 52 2 OYEHRA 52 - CMELLEHHAA, NO PARCE AOKABAHHOMU (1.5). UCCNEATEM OYEHRY \$ 52: E(\(\frac{n}{n}\)52) = \(\frac{n}{n}\) ES2 = \(\frac{n}{n}\)\. \(\frac{n}\)\. \(\frac{n}{n}\)\. \(\frac{n}\)\. \(\frac{n}{n}\)\. \(\frac{n}{n}\)\. \(\frac{n}\)\. \(\frac{n}{n => 1-152 - HECMELYEHHAR OYEHRA 02 MUNECHOCE MAT. OX. 1.5 4 9-M 6AGECA: P(y=κ|x) = P(x|y=κ) P(y=κ)
Σρ(x|y=;) P(y=i) 8 QDA LDA: P(XIY=X) = ((2T) 1/2. [Ex] 2)-1. · exp (- 2 (X-Mx) Ex (X-Mx)) (cornacho or region Aormentagua saleman). Torna: LDA: In P(y=x [x) = - = (x-mx) E' (x-mx) + InP(y=x) + C = Ax +B, rae A= (E' xx) , B= = - 2 MX E MX + In P (Y=X) + C, J.E. PABRELLINGUE NOBERXHOLIN MUHERING (YX EX=E) QDA: In P(Y=x(x) = - { In | Ex| - { (x-Mx) E' (x-Mx) + In P(Y=x) + c - no Bust 9-161 Busto, 420 B obusen come in P(y=x(x) - Hexotopian x BANDATHYHAA POPM OT X, T.P. PAZARROWYLE no-BERKHOLTH (BOBYEN CATAR) MEARPATHYHII. OTHERM, 470 LDA - MOTHIG CATAGE QDA. New die nouberen neunera Mx, Ex, P(J=x), work PADA DOB-TO QDA 6600A: 1) runer601001: lu P(y=x (x) ~ (x-yx) \ \(\frac{1}{2} \) (x-yw). Bo36men \(\mu = 0 \), morays (1 0)