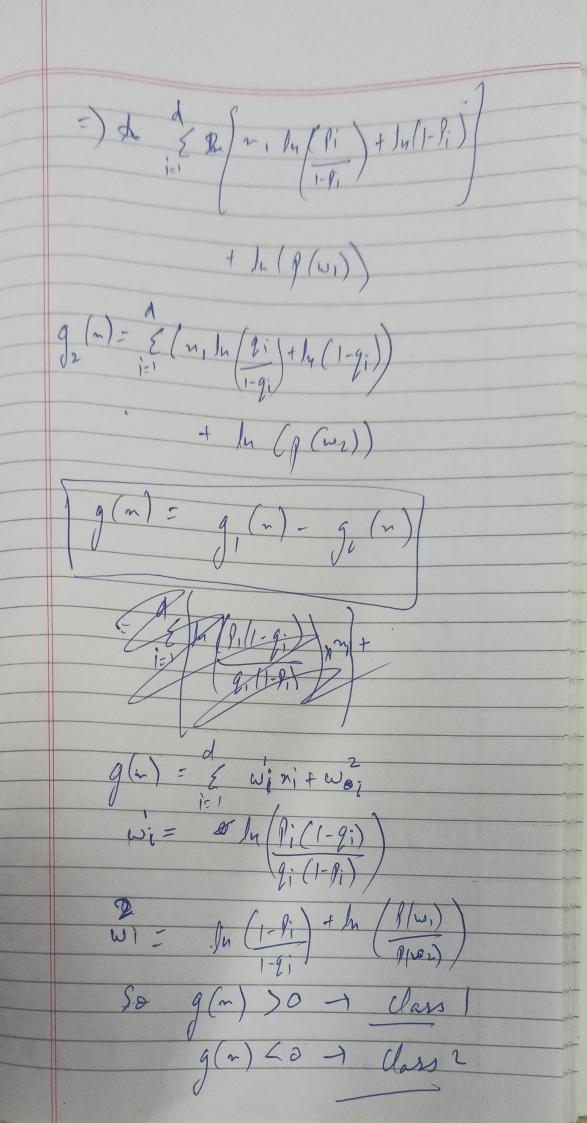
g, (~) & g. (~) be discriminant function for the with mechanics. Clary 1 / P = 1, 1, 1 09 = 9,7 $g_{1}(x) = \ln \left(P(\omega, h) \right)$ $= \ln \left(\frac{d}{d} P_{1}^{(\omega)} \left(\frac{1-p_{1}}{p_{1}} \right) \right)$ $= \ln \left(\frac{d}{d} P_{1}^{(\omega)} \left(\frac{1-p_{1}}{p_{2}} \right) \right)$ $= \ln \left(\frac{d}{d} P_{1}^{(\omega)} \left(\frac{1-p_{1}}{p_{2}} \right) \right)$ En (phi) & In (phi) = 2 mi la (pi) + d (1-ni) la (1-pi)

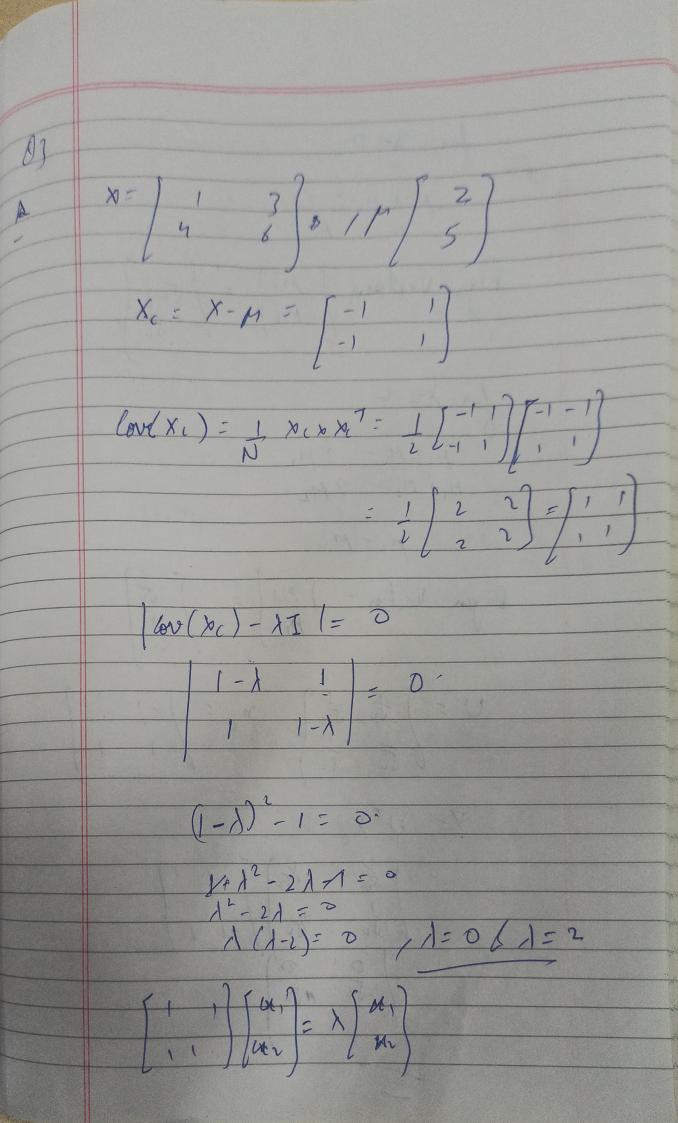
fla (p(wb))



2019213 Utkarsh Duby SML Assignment -2 De An Mypothetical prior - OTe-B paj OMAP = argman p(O/D) = p(D/O)p(0) & Jakhy log. F(0) = In(p(D10)) + In (p(0)) = In (TT p(ni/0)) + In (p(0)) = In (77 97 0 "1) x (1-0);)-min)) a for (p(0)) = \(\frac{2}{2} \frac{1}{2} \ + In (p(0)) for OMAP W how of (F(O)) - O $\frac{\partial (F(0))}{\partial (I_{1})} = \frac{1}{2} \frac{\partial (I_{1})}{\partial I_{2}} = 0$

$$\frac{1}{10} \frac{1}{10} \frac{1}{10}$$

We how 1 X= [@1 0 1 1 / d= 2, N=4 Butty values in Or Map estal calculated DIMAP = 4+2 + \$ 16+16-43 3/1 = 6+ 32-4×3, where \(\frac{2}{k=1} \) = 3 = 6 t \sigma - 3 t \sigma \sigma = - 3 t \sigma \sigma = - 3 t \sigma \s D2 MAD = 4+2 + (18+16-43 4)2 = 3±17 So passible values are 3-55 and 3-57



for A=0 M, + M = 0 M, = - M2 MIT M2 = 2 MI MI+ M2= 2M2 MI=ML fign Vedor = \mathread | = | \textstyle | \t

UY + mean (x) = UUTR + MAT Mas Monce MSE(x,x) = 0 tod. Yes lede matches with the