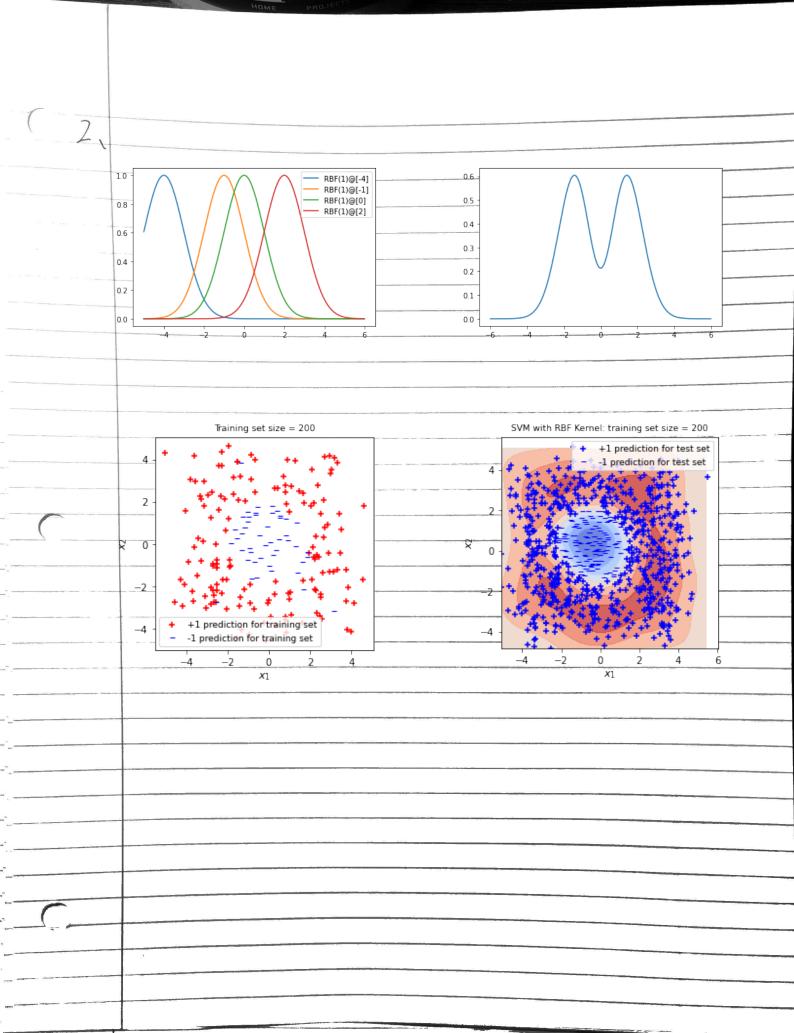
1/1/2 ((a) For whist runed SYM Filw vi-b) 31-8; for ti Eizo for X; 3 @ is the same as 2:21-fi(WTVi-b) sonsider @ and @ together, to min &i, 217 max (0, 1- y: (WTV:-b1) = (1-y: (WTV:-b))+ plug st Into 9 get min || wlli + 6/2 = (1-b; (WTy:-b))+, which is the above formula. For W= 3 di \$(xi) = D' & for dER" where DER" with \$(xi) ER" as the 1th You. So \$(xi) W = (\$\bar{\bar{\pi}} \bar{\pi} \chi) = (k\pi) , h = \bar{\bar{\pi}} \bar{\pi} \chi) 11 W11, = WTW = 2 T D ET 2 J(w) = /n = (1 - y; (4(xi) w))+ + //w//2 = 5/n = (1- gi(kdi)++ atkd) = c(n = (1- gi(kd)i)++ t d*kd) to = 51 if y; (KO); < 1 (1) for i in rough max- Iteration): for j in range (x-length): if y; (Kd); <1:
gradione = - tj. kj + 1 Kd. else: gradiant = AKA



3. (a) Safe arm ~ Ber (1t6/2) E(com 1) = 6/5, Hishy arm ~ Ber (1-6/2) E(com 2) = 62/5; $\{5, (1+5) = 26, \quad \{5, -6 = 26, -5, \}$ combine $\{5, (1-8) = 26, \quad \{5, -6 = 52 - 26\}$ (9,+52) 8=26,-262+5,-5, where 970 and 5,70 and 5,70. 50 26, -262+52-5,70 If arm 2 15 safe, we have the same expression as demonstrate except 900. Then 26, -26, +5, -5, <0 Thus 26,-262+52-5, >0, orm 1 is safe 261-262+52-5, 60, Min 2 15 safe. (b) For orm 1, sex [y, y, ,..., fr], y; 690.13, r(om 1)=6. For own 2, set [x, x2, ..., 7n] , x; = 11-1/1 [r(arm 2)=4-6. heing stock the sin the risky arm. Thus can't go day.