8.0. f(x1,x2) = (x, -1,3)2+ (x2-1)4 NRO X243x2 -13 u.d. N -1+x,+x, =0 (81) -1+1x-X250 (82) -1-X1+X260 (93) -1-X1-X250 (94) (x,1) = (x,-1,5)2+(x2-1)4+1/1-1+x,+x2)+1/2(-1+x, x2) +13(-1-X1+X2)+14(-1-X1-X2) $\nabla_{x} L(x, \lambda) = \left[2(x_{1} - 1, 3) + \lambda_{1} + \lambda_{2} - \lambda_{3} - \lambda_{4} \right] = 0$ $((x_{2} - 1)^{3} + \lambda_{1} - \lambda_{2} + \lambda_{3} - \lambda_{4}) = 0$ = Vf(x)-(2(x,-1,3))+-4(1)+1-(1)+-3(-1)+-4(-1)=0 1. Fall) / 1841 = 0 2. Fall) 12,3,4=0 X1 = 1,5 2(31) 1 x 3 x - 1) + -2x, -3+1, -0 =1 1= -2x,+3 4(x2-1)3+11=0 (1-1+X1+X2)=0 10-1 1 x 2 = +1-x1 U(-x13+1=0 KKT - 4x3 -2x, +3=0 x, = 0,728 082123 068 Punht ga ist xy = +1 - x2 = 0,27,9178769 allive VL (x, x2) = 0 for x1 = 0,728 082123068 1 x2-0,2713128768 Bedingry.