19016 P03

Li Seftmargen

 $\min_{\omega,b} \frac{1}{2} ||\omega||^2 + C \stackrel{\text{def}}{\approx} e_i \qquad \text{st. } y^i(\omega^r n_i + i_b) \geq 1 - \epsilon_i, i = 1, 2, ..., m$

 $L(w,b, E, \alpha, \beta) = \frac{1}{2} |w|^2 + C \stackrel{W}{\underset{i=1}{\overset{}{=}}} E_i + \sum_{\alpha_i} [(i-E_i) - y_i (w_{\alpha_i}, \beta_i)] + \stackrel{W}{\underset{i=1}{\overset{}{=}}} B(-E_i)$

 $d = \omega - \sum_{i=1}^{\infty} \alpha_i y^i n^i = 0$ $w = \sum_{i=1}^{\infty} \alpha_i y^i n^i$

2 : Exiy'=0

d = C-a; - 8; = 0. B; = C-a;

B126/ (-4120: 05 x1 50.

u L(ω, b, ε, κ, e)= ½ ||xiyi xi||² + ∈ ξ ε; + ξ α; (1-ε;-g||ξ(σ; ξ χ)) [1.6] - ξ ε;ε,)]

= -1 Early you to x1 x1 + CEEr 18x1 + - Ex181 - 68x14- 8x1

- Ea; - 1 Z 1 Magigi hitsi a max st osxiss dud.

2 Exigi=0

U. Solmarjn:

Replace 9 .