Exacise Sheet (62) 至x.1  $E(x, \omega) = \frac{1}{5} |x_i - \frac{1}{5} |x_i - \frac{1}{5}|x_i - \frac{$ ARGMIN E(z, W) = ARGMIN E(G(x), W) i) E(x.x, w)= / | x.x; -/ 5 W; x; x/= =  $x^2 \le |x| + \le w : |x|^2$ =  $x^2 \in (x, \omega)$ (x+5, W) = 2 - (x; + 5 - 2 W: (x; + 15) | = = 2 - (x; + 8 - 2 - W; x; - 5 - W; ) =  $= \frac{1}{2} |x_1 - \frac{1}{3} \omega_{i,j} x_j|^2 = \mathcal{E}(x_i, \omega)$  $|ii\rangle$   $(0z,\omega) = (0x; -2,0; 0x; 12)$  $= 2 \left[ \begin{array}{c} 1 \\ 2 \\ 3 \end{array} \right] = \left[ \begin{array}{c} 1 \\ 2 \\$  Ex. 2 E W: =1 i) {= 1x- 5 0x7x12 (x-7)12= - WT(11xT-7)(1= UT(11xT-7)(11xT-7)W= = W C W Co hin STCU S.T 11W = 1 2 = 1 w Cw + l (1- w 1) . 04 = CW - L1 = 0 J = l - 1 J = l + 1 - 1 J = l + 1 - 1 J = l + 1 - 1=> U= C-11 C ~ 1 (=> ~ = C -1) U= 0 U= C-11