$u(\alpha) = 0, i6 \mathcal{E}$   $u(\alpha) = 0, i6 \mathcal{E}$ Cone  $L(x,\lambda) = f(x) - \sum_{\lambda \in C} Li(C(x)) - \sum_{\lambda \in C} Li(C(x))$ KKT conditions:  $(0) \forall x L(x, x) = \forall f(x, x) - (x, x) = \forall f(x, x)$ L' Solves (OMP) Then,  $\exists x^{\sharp}$  (a) Ciat)  $\geq 0$ , iel, with = 0, it  $\in \mathbb{Z}$ iel such that 1. 战(公成) =0, { \(\bar{u}\) \(\bar{u}\) \(\bar{u}\) \(\bar{u}\) \(\bar{u}\) \(\bar{u}\) K={VAR": V=BY+CW, 420} V3 Eder, grd 20. Brd 20. Cd=v Not both  $B = (b_1, b_2, \dots b_2), C = (C_1, C_2, \dots C_E)$  $b_i = \nabla (i \alpha)$ ,  $i \in I$ bi, Ci EIR, ci = TCi(x). it & J + [ This is w, E Wi √(iα)
io ε Li  $\frac{1}{1} = \frac{1}{1} \frac{$ The xx solution, 3x, kkT corditions hold. C(xt, xt), HWG (cxt, xt) Thg. X\* --- (WT Txx L(x, x\*) W>0

M(x) Sulves Lealler 14+2X follower Daulitu min  $f(x) = \frac{1}{3}x^T Ax + CTX$ AX-bZO BERM  $L(x.\lambda) = \frac{1}{2} x^T 4x + CT x - \lambda^T (At - b)$ GX+C-ATA=U  $X = G(AT\lambda - C)$  $=\frac{1}{2}\left(4^{7}(A^{T}\lambda-c)\right)4\left(4^{7}(A^{T}\lambda-c)\right)$  $+ c^{T} (G^{\dagger}(A^{T}\lambda - c)) - \lambda^{T} (A(G^{\dagger}(A^{T}\lambda - c) - \lambda)$ 三型犯, 獨對種