问题

min f(b)

有局部间部入外,挂格的目录和人外,

假放 Xxx 是一个 3次1点、至了约束Tran 新国 机聚Tran Hessian 为 L*=2(Xx, Xx).

是正定的,则对偶的是为

wat W(x)

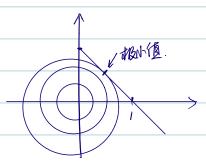
 $W(\lambda) = L(\Lambda(\lambda), \lambda), \quad \Lambda(\lambda) = \operatorname{argmin} L(\Lambda, \lambda)$

Example primal problem. min $\chi_1^2 + \chi_2^2$

$$5, b, \gamma_1 + \gamma_2 = 1$$

Dual problem





where

$$W(d) = \min_{\beta_1, \gamma_1} (\gamma_1^2 + \gamma_2^2) + \chi(\gamma_1 + \gamma_2 - 1)$$

解:
$$L(\chi_1, \chi_2, \chi) = (\chi_1^2 + \chi_2^2) + \chi(\chi_1 + \chi_2 - 1)$$

$$W(\lambda) = \min_{\alpha \in \mathcal{A}} L(\alpha_1, \alpha_2, \lambda)$$

$$\frac{\partial L}{\partial \chi_i} = 2\chi_i + \alpha \implies \chi_i = -\frac{1}{2}\alpha$$

$$\frac{2L}{\partial n_2} = 2n_2 + \lambda$$
 \Rightarrow $n_2 = -\frac{1}{2}\lambda$

thought
$$W(d) = -\frac{1}{2} d^2 - d$$

$$\frac{\partial w}{\partial x} = -\lambda - | = 0 \Rightarrow \lambda = -|$$



