maximise
$$x^{01}x^{02} + x^{01}$$
 - minimise $-x_1x_1 + x_1$
 $5.1.$ Expire [P) \iff $5.1.$ ETX=1 $e=[1,1,...]$
 171 $\times 70$ $e^{-1}x = 0$ $= (1,2,...n)$

$$kKT condition:$$

$$\nabla f(\bar{x}) + \sum_{i,j}^{N} V_i \nabla f_i(\bar{x}) + W \nabla h(\bar{x})$$

$$= \int_{-\alpha_1 \bar{x}_1}^{\alpha_1 - \alpha_2} \sum_{i=1}^{\alpha_1} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{i=1}^{\alpha_2} \sum_{j=1}^{\alpha_2} \sum_{j=1}^{$$

$$Vigi(\bar{x}) = Vi(-\bar{x}i) = Vi\bar{x}i = 0$$
 (Complementery blackness)
 $\bar{x} \ge 0$ $\bar{x}_i = 1$ | $primal$ feasibility)

Since this is a linear constrained optimization problem. Necessary for optimal.

the optimal value for P is D. However, it's easily to find $\bar{x}=(\bar{h},\bar{h},\cdots\bar{h})$. $\bar{x}_i=\bar{h}>0$

to make the offinal value > 0. In this way, vi = 0.

$$\Rightarrow a_1 \times_1^{a_1 + a_2} \cdots \times_n^{a_n} = a_2 \times_1^{a_1} \times_2^{a_2} \cdots \times_n^{a_n} = a_n \times_1^{a_1} \times_2^{a_2} \cdots \times_n^{a_n}$$