

①

$$\begin{bmatrix} 1 \\ 4 \end{bmatrix} \leq \begin{bmatrix} 2 \\ 1 \end{bmatrix}$$

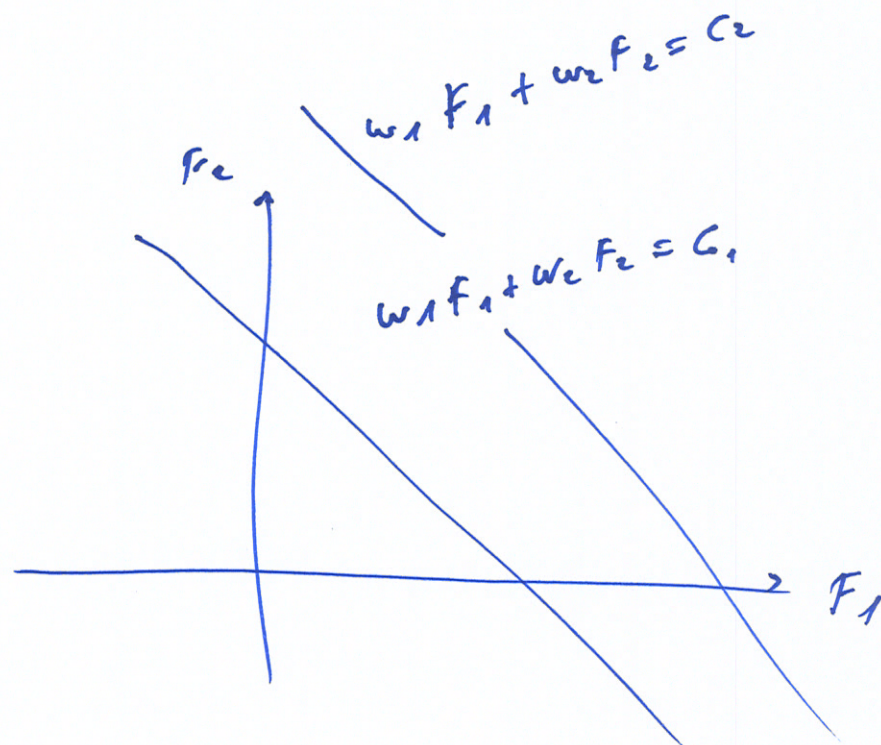
$$\begin{bmatrix} 1 \\ 4 \end{bmatrix} \neq \begin{bmatrix} 4 \\ 1 \end{bmatrix}$$

2024.10.15

$$\text{min } w_1 F_1 + w_2 F_2$$

$$\text{min } C$$

$$w_1 F_1 + w_2 F_2 = C$$



②

$$\min_{f, x} f$$

$$F_i(x) \leq F_i^{\text{goal}} + w_i f \quad \text{for } i=1 \dots n$$

$$g(x) \leq 0$$

$$h(x) = 0$$

$$w_i = 0 \quad \rightarrow \quad \text{hard constraint} \quad F_i(x) \leq F_i^{\text{goal}}$$

$$w_i > 0$$