Simplex

① $X_1 + X_2 \geq 3$

$X_1 + X_2 - X_3 + \bar{X}_4 = 3$ ⇒ Two phase method

② $X_1 + X_2 \leq -3$ ← b must ≥ 0

$-X_1 - X_2 \geq 3$

$-X_1 - X_2 - X_3 + \tilde{X}_4 = 3$ ⇒ Two phase

③ $X_1 \in R$ ← 自由

$X_1 = X_2 - X_3$,

$X_2 , X_3 \geq 0$

④ min matrix

X^T

X_0 A B

$C^T - C_0^T A$ $-C_0^T B$

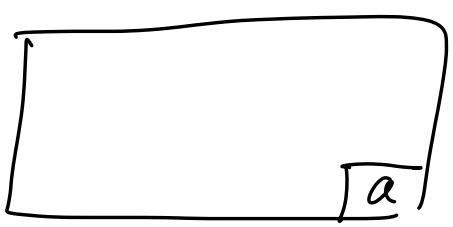
max matrix

X^T

X_0 A B

$-C^T + C_0^T A$ $-C_0^T B$

⑤ final value



$Z_{min} = -a$

$Z_{max} = a$