25. Find an example, where both primal and dual LPs are infeasible.

$$A = \begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}, \quad b = \begin{pmatrix} -1 \\ -1 \end{pmatrix} = -C$$

$$-\eta_1 \in -1$$

$$\eta_2 \leq -1 \qquad \qquad -\eta_1 \geqslant 1$$

$$\eta_2 \leq -1 \qquad \qquad -\eta_1 \geqslant 1$$

$$\eta_1 \geqslant 1$$

$$\eta_1 \Rightarrow 1$$

4. Consider the above red-blue path problem in directed graphs. Prove that it is NP-hard. Some related NP-hard problems, which may be useful, are – longest path, hamiltonian path, shortest path with negative and positive edge weights.

if each clause how all vars

71 ×2 ×1

divide tronguer, repeat, - _-