\[ \text{cap}(X, \bar{X}) = \sum u \text{ across cut} \]

For any flow \( f(X, \bar{X}) = \sum f' \text{ from } X \text{ to } \bar{X} \)

\[ - \sum f' \text{ from } \bar{X} \text{ to } X \]

flow value = \( f(X, \bar{X}) \leq \text{cap}(X, \bar{X}) \)

max flow = min cut