Solutions for Chapter 26

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Solution to Exercise 26.1-1

According to the text (page 644), if $(u, v) \notin E$, we have $c(u, v) = 0$, so that $f(u, v) \leq c(u, v) = 0$ by capacity constraint. Similarly, if $(v, u) \notin E$, we have $c(v, u) = 0$, so that $f(v, u) \leq c(v, u) = 0$. Since $f(u, v) = -f(v, u)$ by skew symmetry, we have $f(u, v) = f(v, u) = 0$.