1. Network True or False.
   A. If \( F(S, T) - F(T, S) = \text{capacity}(S, T) \), then \( F \) is a maximal flow.
   B. If \( F(T, S) = 0 \) and \( (S, T) \) is minimal cut, then \( F \) is a maximal flow.
   C. A cut can be minimal for one flow, and not minimal for another flow.
   D. If \( ab \) is an unsaturated edge with non-zero flow and \( (S, T) \) is a minimal cut, then either both vertices are in \( S \) or both vertices are in \( T \).
   E. If \( |F| = 0 \), then every edge has zero flow.

2. For the transport networks below:
   A. Which have a unique maximal flow?
   B. Which have a unique minimal cut?
   C. Which have the property that every non-zero integer-valued flow is maximal?
   D. Which have the property that every cut is minimal?