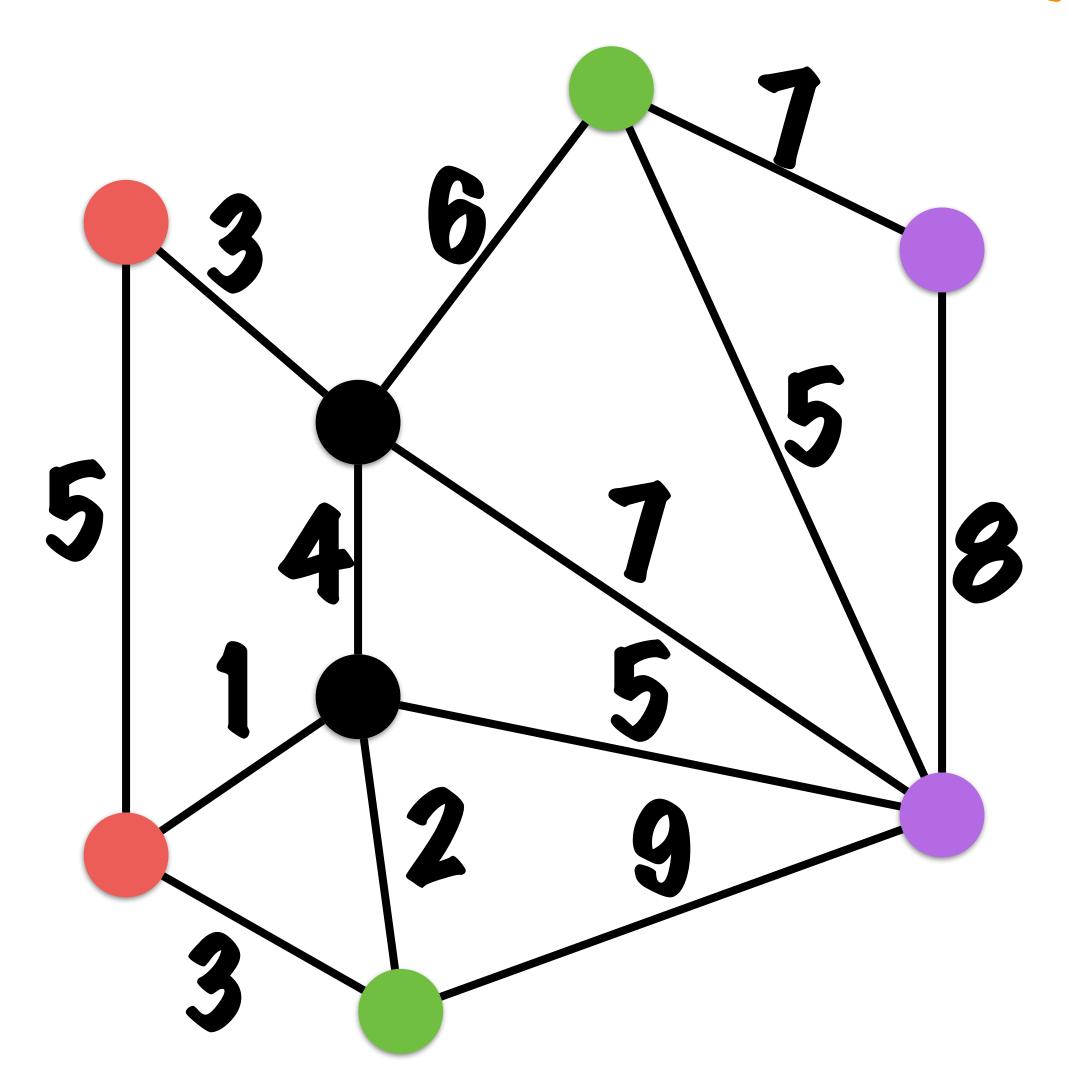
### Steiner forest

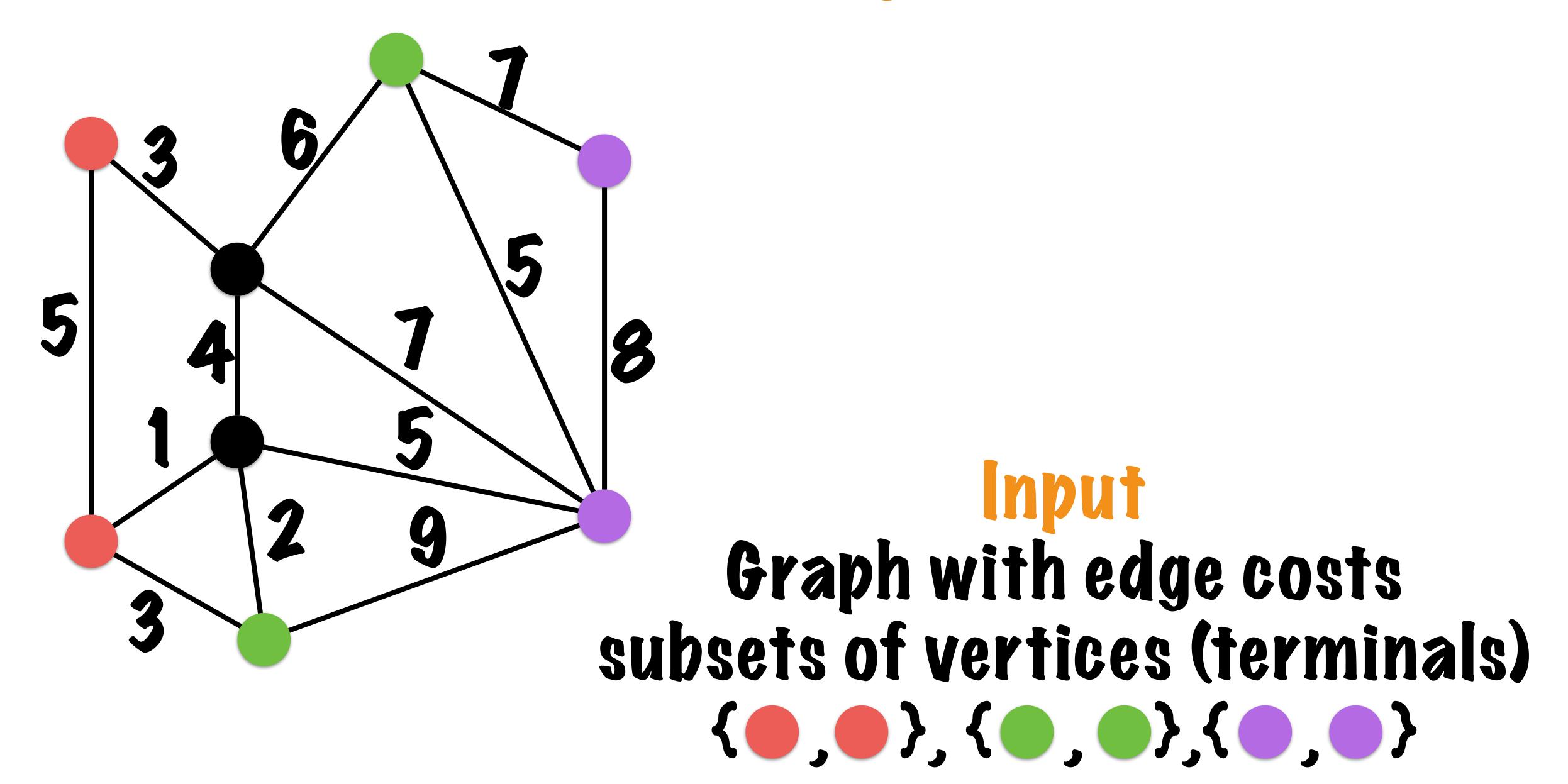


## Appears in...

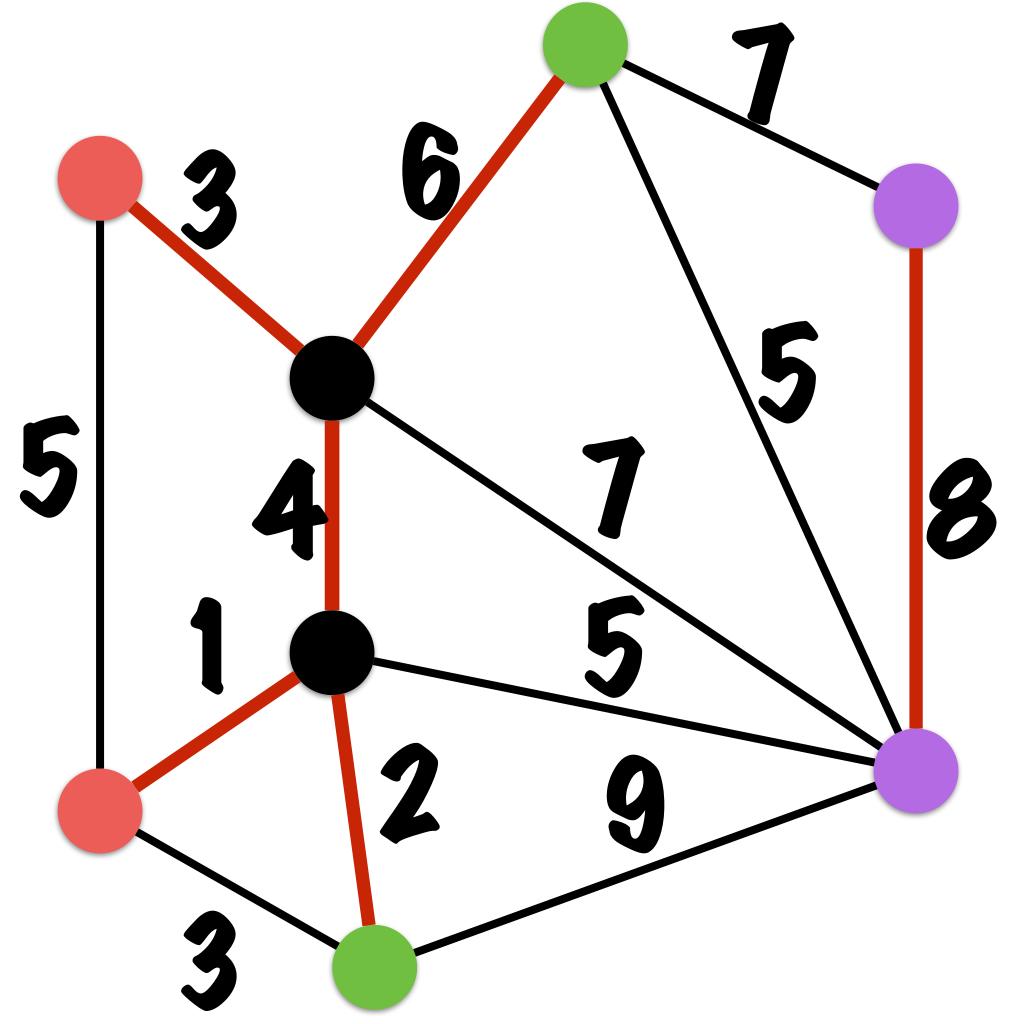


VLSI Optical and wireless communication Transportation and distribution systems Network design

### Connecting subsets



# Connecting subsets Input



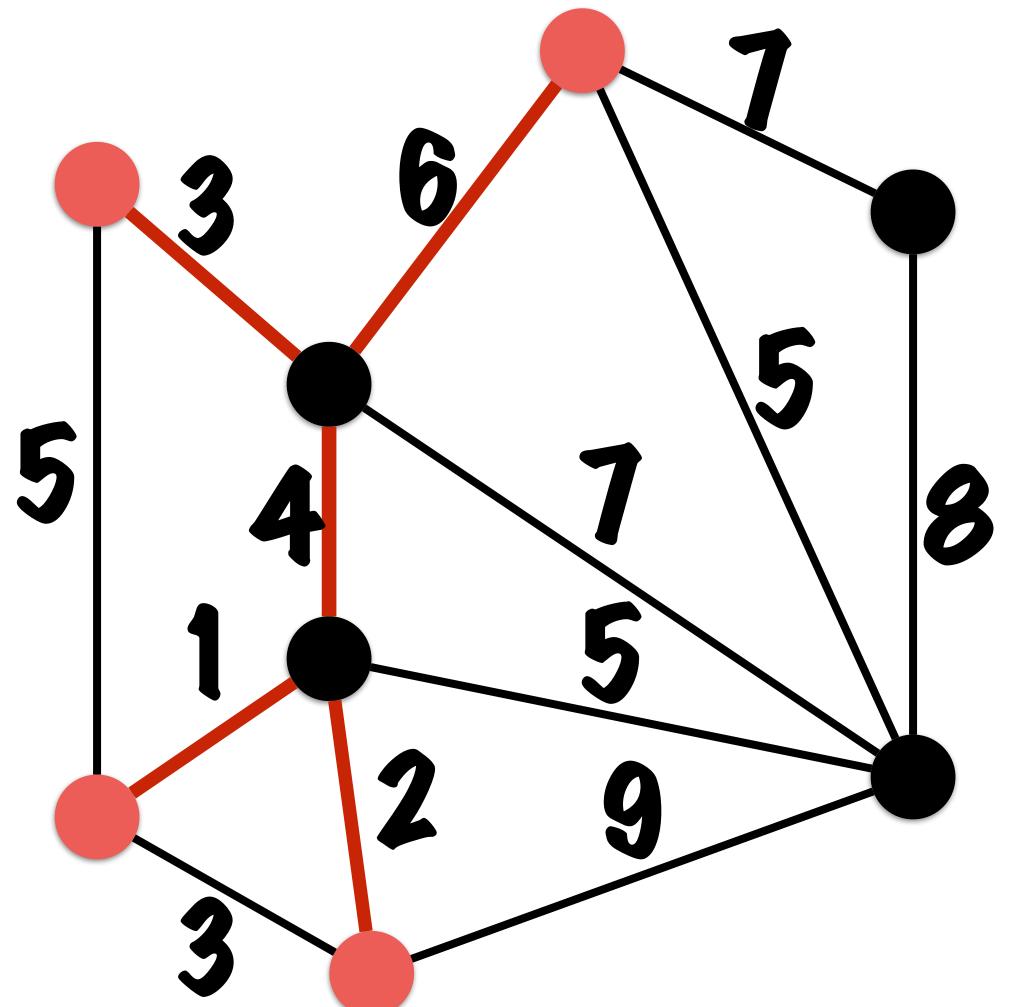
Graph with edge costs subsets of terminals {\\_,\\_,\\_,\\_,\\_,\\_,\\_,\\_,\\_)

Output

choose edges s.t. each subset is connected Goal

minimize cost of edges

# A special case: Steiner tree Input



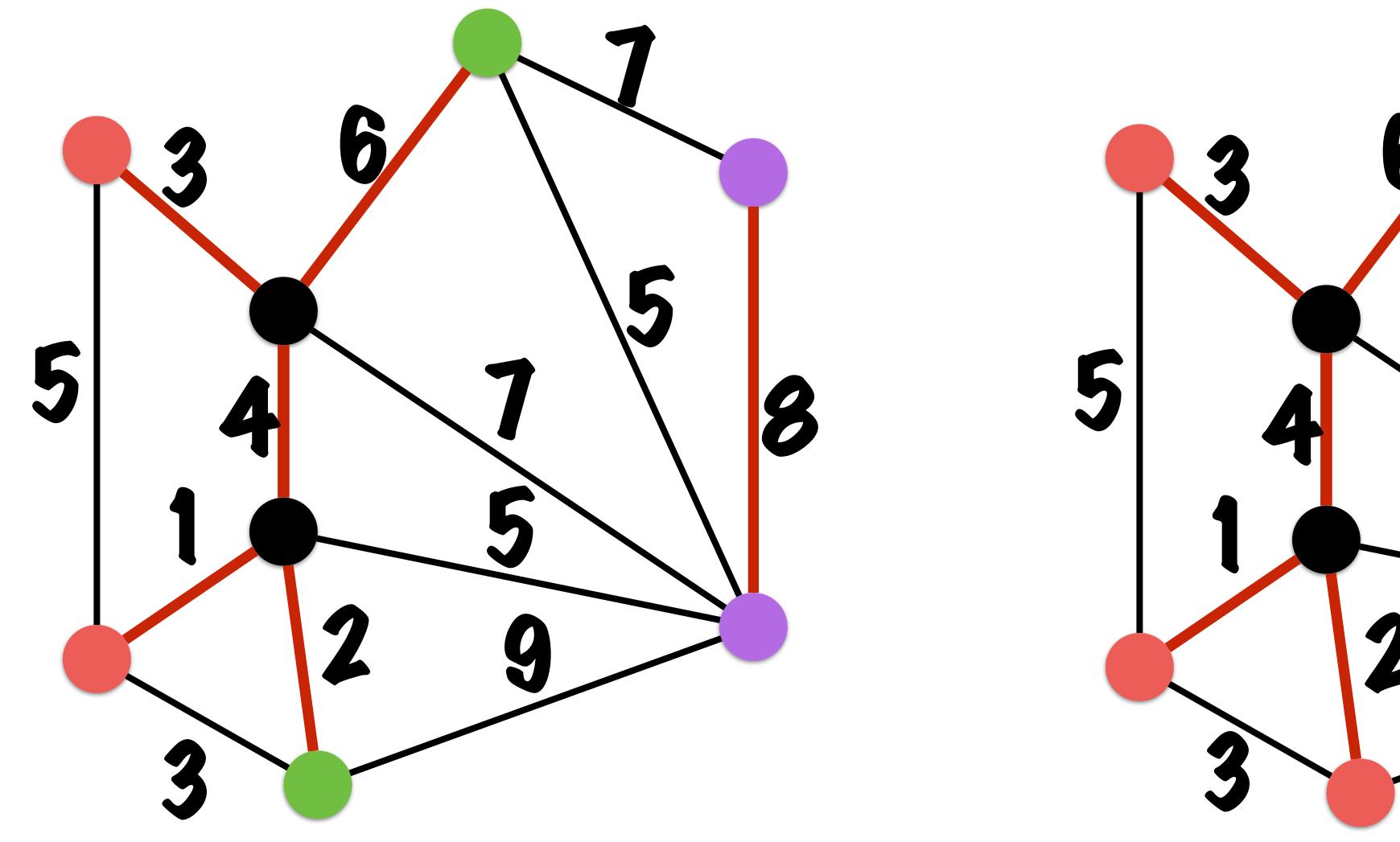
Graph with edge costs one subset of terminals

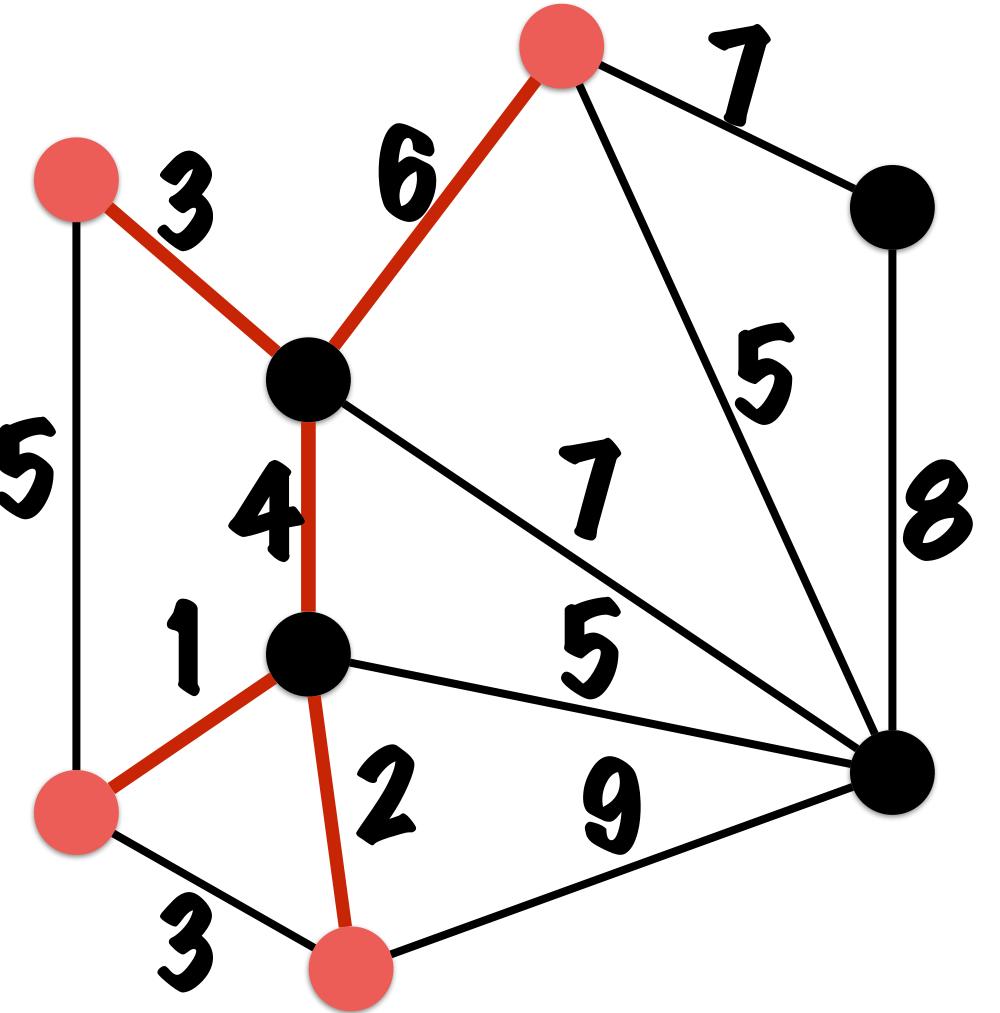
Output

choose edges s.t.
the subset is connected
Goal

minimize cost of edges

#### Steiner forest vs. Steiner tree





### Steiner forest

