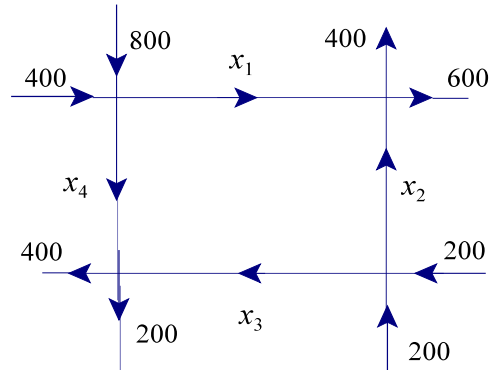


Instructions: Write complete legible solutions to the following problems in the space provided. Be sure to supply all the necessary steps that lead to your answers.

1. The accompanying figure shows network of one way-streets with traffic flowing in the direction indicated. The flow rates along the streets are measured as the average number of vehicles per hour.
  - a. Set up a linear system whose solution provides the unknown flow rate.



- b. Solve the system for the unknown flow rates.

2. Analyze the given electrical circuit by finding the unknowns.

