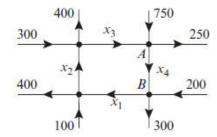
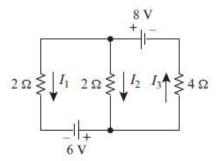
HOMEWORK

- The accompanying figure shows a network of one-way streets with traffic flowing in the directions 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 rates.
 - (b) Solve the system for the unknown flow rates.
 - (c) If the flow along the road from A to B must be reduced for construction, what is the minimum flow that is required to keep traffic flowing on all roads?
- analyze the given electrical circuits by finding the unknown currents.





approximate the integral

3)

$$\int_0^1 e^{x^2} dx$$

by subdividing the interval of integration into five equal parts and using an interpolating polynomial to approximate the integrand.