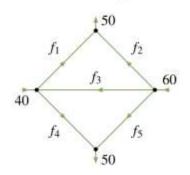
Math 260: Linear Algebra Sections 1.4-1.6 Homework Problems

Book Problems: Section 1.4: #1a

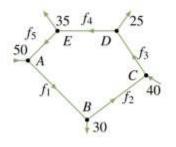
a.

Exercise 1.4.1 Find the possible flows in the following networks of pipes.



Book Problems: Section 1.4: #3

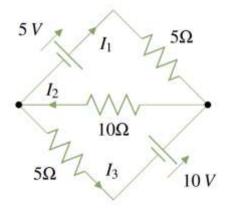
Exercise 1.4.3 A traffic circle has five one-way streets, and vehicles enter and leave as shown in the accompanying diagram.



a. Compute the possible flows.b. Which road has the heaviest flow?

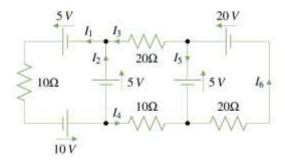
Book Problems: Section 1.5: #2

Find the currents in the circuit



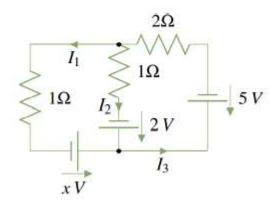
Book Problems: Section 1.5: #3

Find the currents in the circuit



Book Problems: Section 1.5: #5

Find the voltage x such that the current $I_1 = 0$.



Book Problems: Section 1.6: #1

Balance the chemical reaction $~~CH_4+O_2\rightarrow CO_2+H_2O$

Book Problems: Section 1.6: #2

Balance the chemical reaction $\ NH_3+CuO \rightarrow N_2+Cu+H_2O$