# MTHSC 3110 Section 1.6 – Applications

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## READING ASSIGNMENT

Read this section in the book on your own.

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#### Exercise 1

Balance the chemical equation

$$KMnO_4 + MnSO_4 + H_2O \longrightarrow MnO_2 + K_2SO_4 + H_2SO_4$$

(that is, determine the proportions of potassium permanganate, manganese sulphate, water, manganese dioxide, potassium sulphate and sulphuric acid molecules so that the number of atoms of each element are preserved in the above chemical reaction).

# NETWORK FLOW

### EXERCISE

Determine the flow pattern of the following network.

