Solve the system (obtain reduced row-echelon form).

$$x_1 - x_2 + 3x_3 = 0$$

$$2x_1 + x_2 + 3x_3 = 0$$

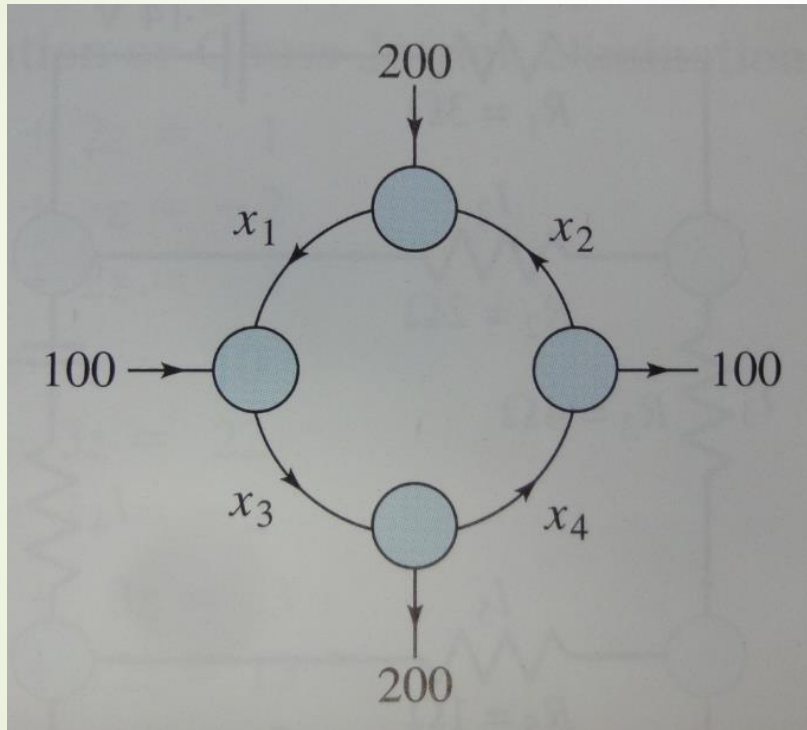# Applications of Linear Systems

Section 1.3

Curve Fitting

Determine the quadratic polynomial $p(x) = ax^2 + bx + c$ whose graph passes through the points $(1, -11)$, $(2, -13)$, and $(3, -19)$.

Analysis of a Network

Larson, 2013

Solve the system for x_i, $i = 1, 2, 3$ and 4.