HOMEWORK 18
DISCRETE MATHEMATICS II
DUE 04-10

(1) In class, we discussed adjacency matrices for *simple* (no loops or multiple edges), *undirected* graphs.
   (a) How should we define the adjacency matrix of an undirected graph *with* loops or multiple edges?
   (b) How should we define the adjacency matrix of a directed graph?
   (c) #10.3.15, 16, 23.

- **Five** book problems: #10.3.57, 58; #10.4.7, 24, 25. See Example 10.2.13 on p. 658 for the definition of $K_{3,3}$.