Exercise 4-1-8

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For each of the following networks:

- label the nodes;
- construct the symmetric adjacency matrix A such that a_{ij} is one if node i is linked to node j, and a_{ij} is zero otherwise (and zero on the diagonal);
- in Matlab/Octave use `eig()` to find all eigenvalues and eigenvectors;
- rank the 'importance' of the nodes from the magnitude of their component in the eigenvector corresponding to the largest (most positive) eigenvalue.