Quiz 10/19/2016

Instructions: This quiz is open book.
Answer the questions below and submit your work in Blackboard. You can use any software you like.

1. Use the Page Rank algorithm to rank the web page network below

\[
\text{GraphPlot}\{\text{a} \rightarrow \text{f}, \text{d} \rightarrow \text{c}, \text{e} \rightarrow \text{b}, \text{e} \rightarrow \text{c}, \text{e} \rightarrow \text{d}, \text{f} \rightarrow \text{a}, \text{f} \rightarrow \text{b}, \text{f} \rightarrow \text{d}, \text{f} \rightarrow \text{e}, \text{g} \rightarrow \text{a}, \\
\text{b} \rightarrow \text{g}, \text{g} \rightarrow \text{c}\}, \text{DirectedEdges} \rightarrow \text{True}, \text{VertexLabeling} \rightarrow \text{True}\]

2. What kind of matrix is the adjacency matrix for the graph above? Use the definitions from the Markov Chains handout and the Mathematics of Web Search page used for the presentations.