1. Consider the following network of web pages, with the hubs shown on the left and the authorities shown on the right.

(a) Show the normalized hub and authority scores that each node gets when you run a two-step hub-authority computation on this network.

(b) Which of nodes A and B has higher authority score? Give a brief explanation in which you provide some intuition for why the difference in the authority scores between A and B turned out the way it did.

2. For the following network of web pages, run the basic page rank update algorithm for two steps and show the page rank values obtained. Are these equilibrium page rank values? Explain how you can determine this.