

## Homework 4

Assigned Nov 25th

Due: Dec 4th

8.1 (15 pts)

9.1 (15 pts)

9.4 (15 pts)

9.5 (20 pts)

9.15 (20 pts)

Given the following graph, show the results of running Johnson's algorithm for all pair shortest path problem in three steps (15 pts)

- (1) construct a new graph with a synthetic node
- (2) compute the weight (potential) of each node in the new graph
- (3) update the edge weight of the new graph

