Name: ________________

Math 181: Quiz 2

Directions: You have 15 minutes to answer the following questions without outside resources. Turn your quiz over when you are done.

1. (6 points) Determine if each of the following graphs has an Euler circuit. If yes, number the edges in the order of their appearance in an Euler circuit. If no, explain why not.

   - (a) No. there are 4 vertices with odd degree.

   - (b) Yes

2. (4 points) Use the Nearest neighbor algorithm starting at A to find a Hamiltonian cycle in the graph below. What is the cycle you found?

   ACBDA wt 25