Name: _____

Math 203: Contemporary Mathematics
Quiz 8: Tuesday, February 10, 2009

The following two questions are worth up to 3 bonus points each. These points will be based on the accuracy, completeness, and clarity of your responses. Use full sentences, and avoid saying things that are untrue, ambiguous, or nonsensical. You may use your book or any notes that you have.

1. [Section 7.1, problem 8.] The tasks for the project of washing clothes are sort clothes, open the lid of the washer, turn on the washer, add soap, add clothes, and close the lid.
   (a) Use a digraph to represent the precedence relations for washing clothes. Be sure to define the labels you use to represent the tasks involved.
   (b) How many vertices are there and which vertices, if any, are isolated?

2. [Section 6.3, problem 30.] Is it possible to have a Hamiltonian path that is not an Eulerian path? If it is, give an example. If it is not, give a brief explanation.