Name: _____

Math 203: Contemporary Mathematics
Quiz 9: Thursday, February 12, 2009

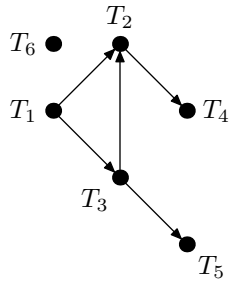
The following two questions are worth up to 3 bonus points each. These points will be based on the accuracy, completeness, and clarity of your responses. Use full sentences, and avoid saying things that are untrue, ambiguous, or nonsensical. You may use your book or any notes that you have.

1. (a) Give an example of a project that can be divided into several tasks, and list these tasks.

   (b) Find two of these tasks that have a precedence relation (order requirement) between them. Explain.

   (c) Find two of these tasks that do not have a precedence relation (order requirement) between them. Explain.

2. [Section 7.1, problem 22(ab)] Consider the following order-requirement digraph.



   (a) List all the sinks that are not isolated vertices.

   (b) List all the sources that are not isolated vertices.