

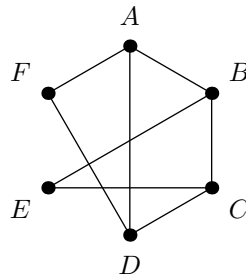
Name: _____

Math 203: Contemporary Mathematics

Quiz 6: Tuesday, February 3, 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. Consider the graph below. Is every subgraph of this graph a tree? If so, why? If not, give an example of a subgraph that is not a tree.



2. [Section 6.1, problem 10(a).] Draw a connected graph with five vertices and eight edges so that there is one loop and four vertices with an odd degree.