

MATH 2602, Quiz 3

June 26th, 2012

Name: _____ GTID: _____

Problem 1 True or False? (5 points).

- (a) $K_{2,3}$ has degree sequence 3, 3, 3, 2, 2.
- (b) It is not possible for a graph to have degree sequence 4, 3, 2, 1, 1.
- (c) K_5 is a Eulerian.
- (d) A Eulerian graph is also Hamiltonian.
- (e) $K_{4,5}$ is a Hamiltonian.

Extra Credit (2 points).

Consider the following Königsberg Bridge Problem. Is it possible to tour the region starting and finishing in the same area (area A , B , C or D), having walked over every bridge exactly once? Either describe such a tour or explain why none is possible.

