General Mathematics and Computational Science II

Exercise 12

March 22, 2007

This homework is due Tuesday, April 10, in class.

1. Ivanov, p. 99, Problem 13.

2. Ivanov states the following famous theorem (p. 100, Theorem 11):

   A finite connected graph is Eulerian (there is a chain containing every edge) if and only if it has either two vertices of odd valency or none.

   Write out a complete proof following the sketch given by Ivanov.

3. Ivanov, p. 101, Problem 18.