

# General Mathematics and ACM II

## Exercise 4

February 16, 2011

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.