

Graph Theory
Bonus Homework Series 06
In Groups of 2-4 Students

Keywords: Eulerian Graphs.

Exercise 1. *Prove Corollary 4.6 from the lecture, i.e. show that a connected graph contains an Eulerian trail if and only if either every vertex has even degree or there are exactly two vertices of odd degree.*

4 points.

Exercise 2. *Assume that every edge of some graph G lies on an odd number of cycles. Prove that G is Eulerian.*

4 points.
