Assignment 4

Post Date: 4 May 2015   Due Date: 11 May 2015   Tutorial: 13 May 2015

Problem 1: Petersen Graph  

Use

(a) Kuratowski’s
(b) Wagner’s, and
(c) the signed constraint graph of the Left-Right Planarity Criterion

to show that the graph $G$ is not planar.

![Graph G](image)

The graph $G$

Problem 2: Aligned LR-Partition

Give an example of a DFS-oriented graph with a non-aligned LR-partition such that the corresponding LR-ordering does not yield a planar embedding.