Week 2

Read Chapter 1 and Section 2.1. We will
There are a lot of problems here. Concentrate on the ones to be handed in first, but certainly try them all. Hand in 1.17, 1.22, 2.6, 2.10, 2.12, problem A.

Problems: 1.11, 1.12, 1.13, 1.15, 1.16, 1.17, 1.20(a), 1.22, 1.23, 1.24, 1.27, 1.28, 2.3, 2.6, 2.7, 2.8, 2.10, 2.12

A (From West) Let $W$ be a closed walk in a multigraph that contains no cycles. Show that some edge of $W$ occurs twice in succession in the walk.

1 B (From West) Prove by induction: The edge set of every closed trail can be decomposed into a union of disjoint cycles.