

# Homework 2

The following are due on Friday, September 14:

§1.3 #31, 34, 44, 45, (use 45 for 44)

§1.5 #7, 21, 22, 23,

Ch 1 Review: #42, 44, 47,<sup>1</sup>

§2.1 #3, 18, 26, 36,

§2.2 #4, 23, 25, 33. (For more theory fun, not graded: 29, 34.)

**Hints:**

- Use 1.3.45 for 1.3.44, and don't forget to use it for any other problems that might need it.
- For 2.2.23, you have to only use the properties from the table on page 98. Neither of the exercises follow from a single use of any of these properties.

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<sup>1</sup>The matrix from 42 is called a Vandermonde matrix.