Before beginning this homework assignment, please review the guidelines for submitting homework. Please write down the total amount of time spent working on the assignment at the top of what you turn in. Remember that at least one problem from each assignment must be written in \LaTeX.

1. **DTP Style Mathematics**

At its most basic, formal mathematics consists Definitions, Theorems, and Proofs (and occasionally similar structures such as Axioms, Lemmas, etc.). Good mathematical writing consists of more than that (eg. motivation, illuminating examples, helpful metaphors, etc.) but first we must come to terms with DTP.

(1) Read Chapters 7 - 15 of Houston’s book.

(2) Read Chapter 2 of Taylor’s notes.

(3) Do Exercises 11.12 (ii), (iii), (iv), (v) on pages 88 - 89 of Houston’s book.

(4) Do Exercise 10 (a) – (f) from Section 1.3 of Taylor’s notes. (We’ll go over these in class)

(5) Do Exercises 12.6 (i) and (iii) from page 94 of Houston’s book.