

Dror Bar-Natan: Classes: 2002-03: Math 157 - Analysis I:

## Homework Assignment 6

Assigned Tuesday October 15; not to be submitted

web version: <http://www.math.toronto.edu/~drorbn/classes/0203/157AnalysisI/HW06/HW06.html>

### Required reading

All of Spivak Chapter 7.

### Recommended for extra practice

From Spivak Chapter 7: Problems 1, 2, 5, 10, 11, 14, 17.

### Just for fun

Can you cover an  $8 \times 8$  chessboard with 21 rectangles of size  $3 \times 1$  and one little square of size  $1 \times 1$ ? Can you stuff 125 boxes of size  $4 \times 2 \times 1$  inside a cube of size  $10 \times 10 \times 10$ ? (If this isn't enough fun, feel free to do one or both of the doubly starred problems in Chapter 7).