

Dror Bar-Natan: Classes: 2004-05: Math 157 - Analysis I:

Homework Assignment 13

Assigned Tuesday January 11; due Friday January 21, 2PM, at SS 1071

Required reading. All of Spivak's chapters 13 and 14.

To be handed in. From Spivak Chapter 14: 1 (odd parts) and 2 (odd parts).

Recommended for extra practice. From Spivak Chapter 14: 1 (even parts) and 2 (even parts).

In class review problem(s) (to be solved in class next Tuesday). Problem 2ii of Spivak Chapter 14: Find the derivative of the following function:

$$F(x) = \int_3^{(\int_1^x \sin^3 t dt)} \frac{1}{1 + \sin^6 t + t^2} dt$$

(if you feel it is necessary, pretend that you've heard of the function $\sin t$ and that $(\sin t)' = \cos t$).

Just for fun. This homework assignment can read your mind! See the web version for details.