

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

Homework Assignment 9

Assigned Tuesday November 9; due Friday November 19, 2PM, at SS 1071

Required reading. All of Spivak's Chapters 9 and 10.

To be handed in. From Spivak Chapter 9: 1, 9, 15, 23. From Spivak Chapter 10: 2 (parts 1, 4, 7, 10, 13, 16), 6 (odd parts).

Recommended for extra practice. From Spivak Chapter 9: 8, 11, 21, 28. From Spivak Chapter 10: 2 (all other parts), 6 (even parts).

Just for fun. I took the following picture of the paper handed out by the airline, aboard Air Canada flight 800 to Boston two years ago:



Denote by $E(t)$ the overall size of the Canadian economy at time t . Can you translate the headline above to a simple statement about a certain derivative of $E(t)$? Plot the graph of $E(t)$ to the best of your understanding given the information in the headline.