Dror Bar-Natan: Classes: 2003-04: Math 157 - Analysis I:

Homework Assignment 10

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

Required reading. All of Spivak Chapter 10.

To be handed in. From Spivak Chapter 10: Problems 2 (parts 2, 5, 8, 11, 14, 17), 6 (odd parts), 8, 9 (notice — in problem 9 replace "$x \leq 0$" by "$x \geq 0$").

Recommended for extra practice. From Spivak Chapter 10: Problems 2 (all other parts), 6 (even parts), 7, 15, 18, 33.

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

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.