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

Homework Assignment 9

Assigned Tuesday November 5; due Friday November 15, 2PM at SS 1071

web version: http://www.math.toronto.edu/~drorbn/classes/0203/157AnalysisI/HW09/HW09.html

Required reading

All of Spivak Chapter 10.

To be handed in

From Spivak Chapter 10: 2 (parts 3, 6, 9, 12, 15, 18), 6 (even parts), 8, 9 (notice — in problem 9 replace "$x \leq 0$" by "$x \geq 0$").

Recommended for extra practice

From Spivak Chapter 10: 2 (all other parts), 6 (odd 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 Friday:

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.