## Homework 2

## Due 9/1/11

- 1. Problem 2.22 of text
- 2. You will quickly learn that  $\gamma (= 1/\sqrt{1 v^2/c^2})$  is an important quantity in relativity. Using software of your choice (Igor is one option) make a plot of  $\gamma$  vs. v/c. The latter (v/c) is also known as  $\beta$ . Note: A plot of A vs. B means that A is on the y-axis and B is on the x-axis. Make sure that the numbers on both axes are legible. According to the plot, at what value of v/c, approximately, does  $\gamma$  reach 1.1?