## Homework 2

Due 9/1/11

1. Problem 2.22 of text
2. You will quickly learn that $\gamma\left(=1 / \sqrt{1-v^{2} / c^{2}}\right)$ 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?
