Math 3240 (Roby) **Quiz #1 Rewrite** DUE in class 20 September 2012

PLEASE WRITE YOUR NAME ON THE BACK OF THIS SHEET AT THE BOTTOM, NOT ON THE FRONT.

1. Use *induction* to prove: If $1 + a > 0$, then for all $a \in \mathbb{R}$ and $n \in \mathbb{Z}^+$

$$(1 + a)^n \geq 1 + na\,.$$

2. On the back of this sheet or separately, rewrite your proof of the eigenvalue problem on Quiz#1 carefully. (Make sure you make your reasoning clear, never assume what you are trying to show, and avoid unnecesary verbiage.) Also, please read my "Rules for Rewrites" handout on the website.