Linear Algebra I

$\mathbf{F11}$

Homework 6

due on 10/17/11

- 3.6 1ab,2defi,4b,5af
- 3.4 1,2,7,8,9,12,13
- #1. Let V be a vector space and (v_1, \ldots, v_n) a linearly independent list in V. Show that the following two statements are equivalent:
 - (a) (v_1, \ldots, v_n) is a basis for **V**.
 - (b) (v_1, \ldots, v_n, v) is linearly dependent for all $v \in V$.