

**Math 110 Fall 2008**

**HW#3: Subspaces, Linear combinations/dependence/independence**

1. Do Exercises 8, 9, 10, 11, 13, 19, 21, 23, 24, 31, on pages 20-23 of the book.
  2. Do Exercises 2, 3, 4, 5, 6, 9, 10, 12, on pages 33-34.
  3. Proof Theorem 1.7. in the book.
  4. Do Exercises 3, 4, 5, 6, 9, 10, 13, on pages 40-42 of the book.
  5. Come to visit me more in my office hours. Please start to think on your project.
- **Remark** You are very much encouraged to work with other students. However, submit your work alone.

**Good Luck!!**