

Written Homework 2

Due: October 7, 2003 at the start of class

1. Exercise 28 on **page 86** of Rosen. Model your answer after those given in the back of the book for exercise 27.
2. Exercise 22 on **page 95** of Rosen. **Justify your answers.**
3. Exercise 60 on **page 110** of Rosen. Draw neat graphs and label the axes. Graph paper is a good idea.
4. For each of the following, give a function from \mathbf{R} to \mathbf{R} with the given properties and sketch the graph of your function.
 - a. f is 1-1 and onto
 - b. f is 1-1 but not onto
 - c. f is onto but not 1-1
 - d. f is not 1-1 and not onto.