

MATH 302 Discrete Mathematics

Assignment 7. Due on Wednesday, November 4, 2009

Read: Sections 4.1– 4.2, 7.1-7.3 For nonhomogeneous recurrence relations, you are only required to know how to solve the first order ones.

Definition: Write down the definitions for the following terms. [5 points]

Principle of Strong Induction

The Well-Ordering Property

recurrence relation

Master Theorem (2 pts. See page 479. Please be aware that the version given in class is stronger.)

Problems to be graded: [10 points]

§4.1/ 20, 21, 32, 47.

§4.2/ 6, 12, 26, 30.

§7.1/ 8, 10

Other problems:

§4.1/ 25

§4.2/ 1, 3, 7, 10, 25, 27.

§7.1/ 3, 4, 12, 15, 25, 27, 35, 37, 42.