

MATH 302 Discrete Mathematics
Assignment 7. **Due on Wednesday, March 21, 2012**
6th edition of the textbook

Read: Sections 4.2, 4.3, 7.1

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

recursive definition

the set Σ^* of strings over the alphabet Σ

the Fibonacci numbers

the set of rooted trees

recurrence relation (Section 7.1)

Problems to be graded: [10 points]

§4.2/ 6, 12, 30

§4.3/ 4, 8, 13, 26, 39.

§7.1/ 8, 10,

Other problems: §4.2/ 1, 3, 7, 10, 25, 26, 27.

§4.3/ 1, 2, 3, 6.

§7.1/ 3, 4, 12,