

Math 2001: Homework W3

Due: October 3, 2008

The following assignment will be graded with an emphasis on clarity of exposition. You should write in complete sentences, be as precise as possible, and be mathematically correct (both in content and format). Be sure to include a title, a short introduction to the topic, and to define all the relevant mathematical terms. The assignment should be **typed**.

Describe some of the ways in which Fibonacci numbers come up. Be sure to

- (a) Describe the Fibonacci sequence,
- (b) Establish how the number of ways to climb stairs is the same as the Fibonacci sequence,
- (c) Demonstrate how placing dominoes on a chess-board gives the Fibonacci sequence.