Math 2001: Homework W2

Due October 11, 2013

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**, and emailed as a .pdf to me by 2pm on the day it is due.

Explain how many steps it takes to solve the Tower of Hanoi problem for n discs and 3 pegs. You should include (at the very least),

- (a) An introduction
- (b) A description of the puzzle.
- (c) A main result stated as a theorem.
- (d) A proof of the Theorem.
- (e) Precise arguments for all your assertions.

Extra Credit. 5 points for typing this paper in LATEX.