## Math 2001: Homework 5

Due: September 29, 2008
Give complete justifications for all your answers.

## Problem 1

1. Let $b_{1}=1, b_{2}=0, b_{3}=0$. Compute the first 20 values of $b_{n}=b_{n-1}-2 b_{n-2}+b_{n-3}$.
2. Give a description of $\{1,2,3, \ldots\}$ as a recursive sequence.
3. Give a description of $\{1,2,4,8,16, \ldots\}$ as a recursive sequence.
4. Give a description of $\{1,2,6,24,120, \ldots\}$ as a recursive sequence.
