PMAT 4340 – Combinatorial Analysis Assignment #9
Fall 2002

Instructions

- Answer each question completely; justify your answers.
- This assignment is due at 12:00 noon on Thursday November 7, 2002.

1. Exercise 6.4.8.
2. Exercise 6.4.10.
3. Find an ordinary generating function $G(x) = \sum_{r \geq 0} a_r x^r$ such that
   (a) $a_r = 5r^2 - \frac{3r}{2}$
   (b) $a_r = (r+2)(r+1)(r)\cdots(r-99)$
4. Exercise 6.5.2.
5. Exercise 6.5.6.
6. Exercise 7.1.4.
7. Exercise 7.1.6.
8. Exercise 7.1.18.