PMAT 4340 – Combinatorial Analysis   Assignment #8
Fall 2002

Instructions

- Answer each question completely; justify your answers.
- This assignment is due at 2:00 pm on Friday November 1, 2002.

1. Exercise 6.2.10.

2. Exercise 6.2.18.

3. Exercise 6.2.35.a.

4. Exercise 6.3.4.

5. Exercise 6.3.14.

6. Exercise 6.4.2.

7. Exercise 6.4.4.

8. Exercise 6.4.6.

9. Exercise 6.4.14.

10. Exercise 6.4.17.

11. Find an ordinary generating function $G(x) = \sum_{r \geq 0} a_r x^r$ such that

    - $a_r = r^3$
    - $a_r = 2r - 3$
    - $a_r = r(r-1)(r-2)$