PMAT 4340 – Combinatorial Analysis   **Assignment #3**
Fall 2003

Instructions

- Answer each question completely; justify your answers.
- This assignment is due at: 3:00 pm on Monday September 29th.

1. Exercise 5.4.20.

2. Exercise 5.4.28.

3. Exercise 5.4.44.

4. Exercise 5.4.52.

5. Exercise 5.5.3, parts (a) and (c).

6. Exercise 5.5.6.

7. Exercise 5.5.15.

8. Exercise 5.5.19.

9. Exercise 5.5.25: Evaluate $\displaystyle\sum_{k=0}^{n} \frac{(2n)!}{k!^2(n-k)!^2}$.