

## 2007 Spring CS204 Homework #8

1. Exercise 7.4.34

2. Determine the numeric function for the following generating function.

$$A(z) = \frac{z^5}{z^2 - 4z + 3}$$

3. Exercise 9.1.16

4. Exercise 9.2.12

5. Exercise 9.2.28

6. [Definition of Tree, Chapter 10]

How many non-isomorphic trees are there which have  $n$  vertices?