

University of South Carolina
Math 574: Discrete Mathematics I
Section 001
Summer I 2012

Homework Set 6

Pre-Class Homework Due: 6-4
Post-Class Homework Due: 6-11

Section 5.2 - Mathematical Induction I

Before Class

- Read from the beginning of the section through Proposition 5.2.1.
- # 2

After Class

- # 7, 11, 14, 17
-

Section 5.3 - Mathematical Induction II

Before Class

- Nothing for today.

After Class

- # 5, 10, 18, 21, 34
-

Section 5.4 - Strong Mathematical Induction

Before Class

- Read from the beginning of the section through Example 5.4.1.
- What is the key difference between an induction proof and a strong induction proof?

After Class

- # 2, 6, 9