

Mathematical Induction and Counting

Due on Thursday, October 29, 2009

Name _____

Score: _____

Recitation (mark one): Friday 10:00am ____ Friday 11:00am ____ Friday 12:00am ____

Print a copy of this sheet and include it as a cover page for the hw. Please mark what the recitation section you have registered for and attend. All exercises are from the 6th edition of the textbook.

1. Do the following exercises from section 4.1..

4,
7,
10,
18 (the factorial $n!$ is defined as: $n! = n (n-1)!$ and $1! = 1$),
32.

2. Do the following exercises from section 4.2.

4,
10

3. Do the following exercises from section 4.3.

2,
8,
24.

4. Do the following exercises from section 5.1.

2,
4,
8,
12,
16,
27,
42,
53