

Assignment #9, CSE 191
Fall, 2014

General Guidelines:

This assignment will NOT be collected, nor graded. **There will be NO quiz based on this assignment. However, there will be similar problems in Final exam.** So you should carefully complete this assignment as if it were to be graded.

1. (0 point). Prove the following summation formula by induction:

$$\sum_{i=1}^n i^3 = \frac{n^2 \cdot (n+1)^2}{4}$$

2. (0 points) Page 330, Problem 10 (a) and (b). (Prove part (b) by induction.)
3. (0 points) Page 330, Problem 14.
4. (0 points) Page 330, Problem 18.
5. (0 points) Page 330, Problem 20.
6. (0 points) Page 330, Problem 32.
7. (0 points) Page 331, Problem 40.
8. (0 points) Page 331, Problem 51.