

Homework 09

1. Section 5.1: problem 22.

2. Section 5.2: problem 45.

Hint: $\sum_{k=1}^n k^3 = \left(\frac{n(n+1)}{2} \right)^2$

3. Section 5.3: problems 5, 13, 17, 49, 71, 73, 85.

4. Section 5.4: Problems 3, 7, 11, 15, 17, 25, 27, 31, 33, 34, 36, 41, 77, 81, 84, 89.

5. Section 5.5, part 1: problems 15, 16, 17, 19, 24, 35.