

MATH 502 - SPRING 2009

HOMEWORK # 4 - Due WEDNESDAY FEBRUARY 11, 2009

Work out all the following problems from Stein-Shakarchi's book. Every problem is worth **5 points**.

- **Chapter 2:** (pages 66-67) 12 a), 15.
- **Chapter 3:** (page 103) 2, (page 109) 3.
- Additional problem: Find all poles and residues of the function: $\frac{1}{z^m(1-z)^n}$, $m, n \in \mathbb{N}$.