

MATH 502 - SPRING 2009

HOMEWORK # 6 - Due FEBRUARY 25, 2009

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

- **Chapter 3:** (pages 105-108) 14, 15, 16, 17, 22.
- **Additional Problem:** Compute using residues:

$$p.v. \int_{-\infty}^{+\infty} \frac{\cos x}{1-x^2} dx.$$