

Homework 2. Due: Mon. Feb 18

- 1) Prove $y^3 - 3x^2y + 3y$ is harmonic and find its harmonic conjugate.
- 2) Let $G \subset \mathbf{C}$ be open and symmetric with respect to the real axis. Find all analytic functions f on G such that $f(\bar{z})$ is also analytic.

p. 33 problem 7

p. 44 problems 17, 19, 20,

p. 55 problem 10