## Math 410 <br> Assignment 1

Reading: Textbook pp. 1-7; Zill and Cullen (your old Math 240 book) pp. 790-800. If you don't have your Zill and Cullen anymore (or if you never had it), there's a pdf file of the relevant pages on the website.
Practice problems: (don't hand these in)

1. Handout page 793, problems 17, 22, 33
2. Handout page 797, problems 11, 21, 27, 37
3. Handout page 800, problems $7,8,15$
4. Textbook page 24, problems 1 (a),(c),(e)

## Problems to hand in:

1. Handout page 793, problems 36, 40
2. Handout page 797, problems 26, 34, 38
3. Handout page 800, problems 23, 25
4. Textbook page 24 , problems $1(\mathrm{~b}),(\mathrm{f})$
5. Textbook page 26, problem 7
6. Prove that the points $z_{1}, z_{2}$ and $z_{3}$ are the vertices of an equilateral triangle if and only if

$$
z_{1}^{2}+z_{2}^{2}+z_{3}^{2}=z_{1} z_{2}+z_{2} z_{3}+z_{3} z_{1} .
$$

