

## MATH 342 HOMEWORK 1, SPRING 2018

DUE AT THE BEGINNING OF CLASS ON THURSDAY, JANUARY 25

One goal for this course is for you to develop your skill in effectively communicating mathematics. With this in mind, you should clearly write up your solutions. Solutions with little or no justification will receive little or no credit.

1.

- (1) Read the course policy.
- (2) Read at least through section 6 in the Churchill and Brown textbook.
- (3) Find the complex analysis book linked here:

`http://math.sfsu.edu/beck/complex.html`,

and please read the copyright information.

- (4) From the first chapter of this linked book by Beck et. al., do problems 1.1 (a)(b), 1.2(b)(d), 1.3(c), and 1.13.
- (5) Read the proof of the triangle inequality, which is Prop 1.6 in this on-line book. Give (write) a justification for **each** step in the proof. (You should do this for yourself every time you read a proof.)