



MAA 4402- 2838 and MAA 5404-2C62
Spring 2018



Time: MWF period 6
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Textbook: Complex Variable and Applications
(9th edition) Brown and Churchill

Office Hours: Monday, Wednesday, Friday period 4
(or by appointment)

Links

[homework](#)
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de Moivre	Cauchy	Riemann	Weierstrass

Homework

Prove: $(zw)^* = z^*w^*$ where z^* denotes the conjugate

Pg 7 #1

Pg 13 #1,5

Pg 16 #1,2,10a

Pg 23 #1,2,5,6

Pg 30 #1,2,4

Sec 12 #1-4

Sec 14 #2,4,8
Sec 18 #3b,5,10,11
Sec 20 (pg 61) #1,8a,9
Sec 24 (pg 70) #1ac,3ab,4a
Sec 26 (pg 76) #1c,2c,4c,6
Sec 29 (pg 85) #4
Sec 30 (pg 89) #1b,2,6,8ac,10
Sec 33 (pg 95) #1,2,5,8
Sec 39 (pg 99) #1
Sec 36 (pg 103) #1,2,3,8c
Sec 38 (pg 107) #5a
Sec 37 (pg 119) # 2,3,4
Sec 46 (pg 132) #1-6,13
Sec 47 (pg 138) #1,2,5,
Sec 49 (pg 147) #2,3,5
Sec 53 (pg 159) #1,2,3,4,6
Sec 57 (pg 170) #1-4,7
Sec 59 (pg 177) #1,2,3,7,8
Sec 61 (pg 185) #2
Sec 65 (pg 195) #1-4,9,11
Sec 72 (pg 218) #1-4,6,7
Sec 73 (pg 224) #1,2a,3,4
Sec 68 (pg 205) #1-6
Sec 77 (pg 237) #1,2,4
Sec 79 (pg 242) #1,2
Sec 81 (Pg 247) #1,2,3b,4,5,7
Sec 83 (pg 254) #2-5,7
Pg 257 #1,4,6
Pg 265 #1,2,4,9
Pg 276 #1-3
Pg 312 #1,3,4,7a

Topics

Complex numbers

rectangular and polar form

Analytic functions

limits and the derivative

Cauchy-Riemann equations

harmonic functions

Examples

exponential and log functions

complex exponents

trig functions

linear fractional transformations

Integrals

contour integral

antiderivatives

Cauchy-Goursat Theorem (and Morera's Theorem)

Cauchy Integral Formula

Liouville's theorem and the Fundamental Theorem of Algebra

maximum modulus principle

Series

geometric series

power series
Taylor series
Laurent series
Residues and poles
isolated singularities
residue theorem
residues at poles
behavior of a function near a singularity
Evaluating real integrals

Messages

Welcome to Complex Variable

Free tutoring at the Teaching Center, SW Broward Hall. Check [Teaching Center](#) for the time schedule.

Students with disabilities requesting accommodations should first register with the [Disability Resource Center](#) (352-392-8565) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

The course will be conducted in accordance with the [academic honesty policy](#), and [policy regarding the use of copyrighted material](#).

"Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: [attendance policies](#).

Information on current UF grading policies for assigning grade points may be found at: [grades](#).

Students are expected to provide feedback on the quality of instruction in this course by completing [online evaluations](#). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

Grades

three exams – equally weighted
Exam 1: February 9
Exam 2: March 21
Exam 3: April 23

This is not the recommended method for remembering formulas.





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