Complex Analysis

Math 214 Spring 2014 Fowler 307 MWF 3:00pm - 3:55pm

 http://faculty.oxy.edu/ron/math/312/14/

Class 16: Friday February 28

TITLE Reviewing For Exam 1

CURRENT READING Zill & Shanahan, §1.1, §1.2, §1.3, §1.4 §1.5, §1.6, §2.1, §2.2, §2.3, §2.4, §2.5, §2.6, §3.1, §3.2, §3.3, §3.4, §3.5, §3.6. (All of Chapters 1-3)

SUMMARY

We will review the material from the first three chapters of the textbook!

WORKSHEETS

Class 1: Properties of Complex Numbers

Class 2: Graphical Representation of Complex Numbers and Inequalities

Class 3: Polar and Exponential Forms of Complex Numbers

Class 4: Polynomial Equations of a Complex Variable and Roots of a Complex Numbers

Class 5: Points Sets in the Complex Plane

Class 6: Complex Functions of a Complex Variable

Class 7: Graphical Interpretations Of Complex Functions

Class 8: Power Functions, the Reciprocal Function and the Point at Infinity

Class 9: Limits and Continuity of Complex Functions

Class 10: Differentiability of Complex Functions

Class 11: Analyticity, the Cauchy-Riemann Equations and Harmonic Functions

Class 12: Application of Harmonic Functions

Class 13*: The Complex Exponential

Class 14*: The Complex Logarithm

Class 15*: The Complex Exponents z^c and c^z

* indicates you are not responsible for this on Exam 1.

QUIZZES

Quiz 1: Arithmetic and Algebra with Complex Numbers

Quiz 2: Solutions of a Complex Polynomial Equation

Quiz 3: Understanding Linear Complex Mappings

BONUS Quiz 1: Mappings and Points Sets in the Extended Argand Plane

Quiz 4: Harmonic Conjugates of Analytic Functions

Quiz 5: The Complex Exponential*

* indicates you are not responsible for this on Exam 1.