Complex Analysis

Class 27: **Friday April 11**

SUMMARY Reviewing For Exam #2

CURRENT READING Zill & Shanahan, §4.1, §4.2, §4.3, §5.1, §5.2, §5.3, §5.4 §5.5, §6.4, §6.5, §6.6

WORKSHEETS

Class 13: The Complex Exponential

Class 14: The Complex Logarithm

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

Class 16: Review for Exam 1*

Class 17: Introduction to Complex Integration

Class 18: Introduction to Contour Integration

Class 19: The Cauchy-Goursat Theorem

Class 20: The Implications of the Cauchy-Goursat Theorem**

Class 21: The Cauchy Integral Formula(s)

Class 22: The Many, Many, Implications of the Cauchy Integral Formula(s)

Class 23: Poles, Zeroes and Residues**

Class 24: Classifying Singularities (And Computing Residues) Using Laurent Series

Class 25: Using Complex Integrals To Evaluate Real (Trigonometric) Integrals

Class 26: Evaluating Improper Integrals Using Contour Integration

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

QUIZZES

Quiz 5: The Complex Exponential

Quiz 6: Complex Integration

Quiz 7: Cauchy Integral Formula(s)**

BONUS Quiz 2: Using Contour Integration To Find Area

Quiz 8: Applications of Contour Integration to Real Trigonometric Integation**

BONUS Quiz 3: Applications of Cauchy's Residue Theorem**

** Key Material For Exam #2.