

Math 312 (Complex Analysis) – Week 10
Spring Term 2004
BUCKMIRE

Monday March 29 *Class 25:*

Cauchy's Integral Formula. We shall learn how to use the CIF to evaluate a wide variety of integrals without having to parametrize again!

Reading:

Saff & Snider, (Section 4.5)

Wednesday March 24 *Class 26:*

Applications of Cauchy's Integral Formula We shall look at the amazing list of implications and results which arrive from the Cauchy Integral Formula and the Generalized Cauchy Integral Formula.

Reading:

Saff & Snider, (Section 4.5)

Friday March 26 *Class 27:*

Zeroes, Poles and Residues. We shall begin our study of the “residue calculus” by classifying zeroes and singularities (often called poles) of a function and illustrate their application to contour integration through the Cauchy Residue Theorem.

Reading:

Saff & Snider, (Section 5.6 and 6.1)

Homework:

Quiz #8 **DUE MON APR 2**

HOMEWORK SET # 9 DUE TODAY