Math 312 (Complex Analysis) – Week 6
Spring Term 2004
BUCKMIRE

Monday February 23 *Class 14*:

The Complex Logarithm. We shall learn about that strangest of beasts: the complex logarithm function and be introduced to **branch cuts**.
<u>Reading:</u>
Saff & Snider, (Section 3.3)
<u>Homework 6:</u> (**due Friday February 27**)
Saff & Snider, Section 3.3 # 1, 2, 3, 4, 5

Wednesday February 25 *Class 15*:

Branch Cuts. More discussion on branch cuts.
<u>Reading:</u>
Saff & Snider, (Section 3.3)
<u>Homework 6:</u> (**due Friday February 27**)
Saff & Snider, Section 3.3 # 9, 13, 16 **Extra Credit: #15**

Friday February 27 *Class 16*:

Boundary Value Problems. Applications of Analytic Complex Functions to solve boundary problems involving Laplace's Equation.
<u>Reading:</u>
Saff & Snider, (Section 3.4)
<u>Homework 7:</u> (**due Friday March 5**)
Saff & Snider, Section 3.4 # 3, 4, 5, 6
QUIZ #6