

Math 418

Homework 10

Due April 19,2001

C19. Which of the following functions are simple? Justify your answers.

(a) $f(z) = \frac{z+1}{z-1}$ in $\mathbb{C} \cup \infty$;

(b) $\sin z$ in $\{|z| < 7\}$;

(c) $f(z) = z^2$ in $\|z - 1\| < 1$.

Problems 5 and 6, Chapter 5, Section 6; 1,2, Chapter 3, Section 7 (Levinson and Redheffer).

Read Chapter 5, Sections 6,7,8.

Look through Chapter 3, Section 7.