Complex Analysis

Math 312 MWF 10:30-11:25am
Spring 1996 201 Fowler

Ron Buckmire ~ 402 Fowler ~ 259-2536 ~ ron@oxy.edu ~ Mon 1-3pm & Thu 1-2pm

---

Worksheet #8 **(Friday 02/07/96)**

SUMMARY functions of a complex variable

complex functions
Given a set S of complex numbers, a function f is a rule which assigns to each $z \in S$ a complex number w. The set S is knows as the **domain of definition** of f. The value $w = f(z)$ can be written as $u + iv$, in other words:

$$f(z) = f(x + iy) = u(x, y) + iv(x, y)$$

Example Write $f(z) = z^2 - z + 2i$ in the form $w = u(x, y) + iv(x, y)$
Mapping