

# 1. Complex Variables & Functions

From § 1.8 :

Complex numbers :  $\mathbb{C} = \{ z = x + iy ; \forall x, y \in \mathbb{R} \}$  (Ordered pair of real numbers)

Complex conjugate :  $z^* = x - iy$

Polar representation :  $z = r e^{i\theta} = r e^{i(\theta + 2\pi n)}$

$r = \sqrt{x^2 + y^2}$  modulus

$\theta = \tan^{-1} \frac{y}{x}$  argument

$$\rightarrow e^{i\theta} = \cos \theta + i \sin \theta$$

Multi-valued function  $\rightarrow$  single-valued in each branch

E.g.,  $z^{1/m} = r^{1/m} e^{i(\theta + 2\pi n)/m}$  has  $m$  branches.

$\ln z = \ln r + i(\theta + 2\pi n)$  has an infinite number of branches.

# Functions Of Complex Variables

**Marcel A. Müller**



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