



## COMPLEX FUNCTIONS

### Why

We name functions whose domain is the complex numbers.

### Definition

A *complex function* is a complex-valued function. The domain is often an interval of the real numbers, but may be any non-empty set.<sup>1</sup>

### Notation

Let  $A$  be a set. Let  $f : A \rightarrow \mathbf{C}$ .  $f$  is a complex function.

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<sup>1</sup>Future editions will expand the discussion, and likely motivate the definition via the genetic approach.



