



# Complex Numbers

## 1 Why

## 2 Definition

### 2.1 Notation

Let  $z$  be a complex number. We denote the real part of  $z$  by  $\mathbf{Re}(z)$ , read "real of  $z$ ," and the imaginary part by  $\mathbf{Im}(z)$ , read "imaginary of  $z$ ."