

# Complex Numbers (Recap)

# Complex Numbers – Basics

- Imaginary unit  $i$ :

$$i \cdot i = -1 \quad \implies \quad i = \sqrt{-1}$$

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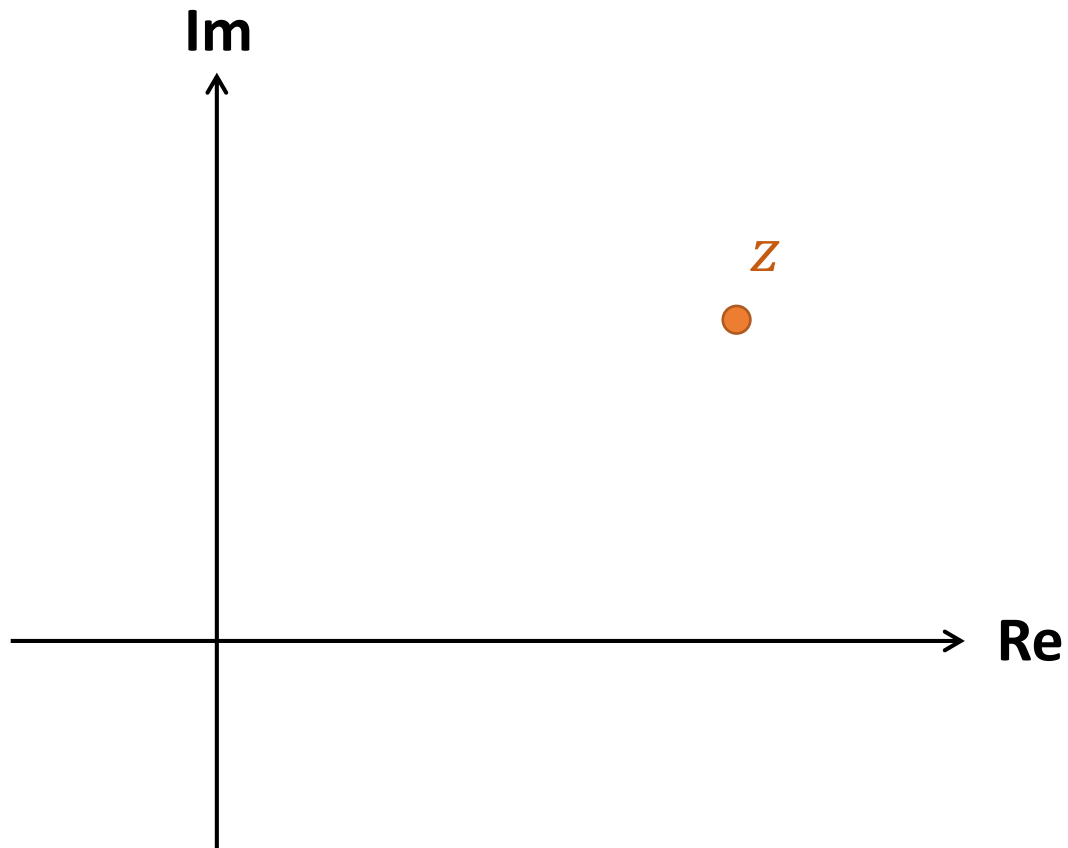
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$$i \cdot i = -1 \quad \Longrightarrow \quad i = \sqrt{-1}$$

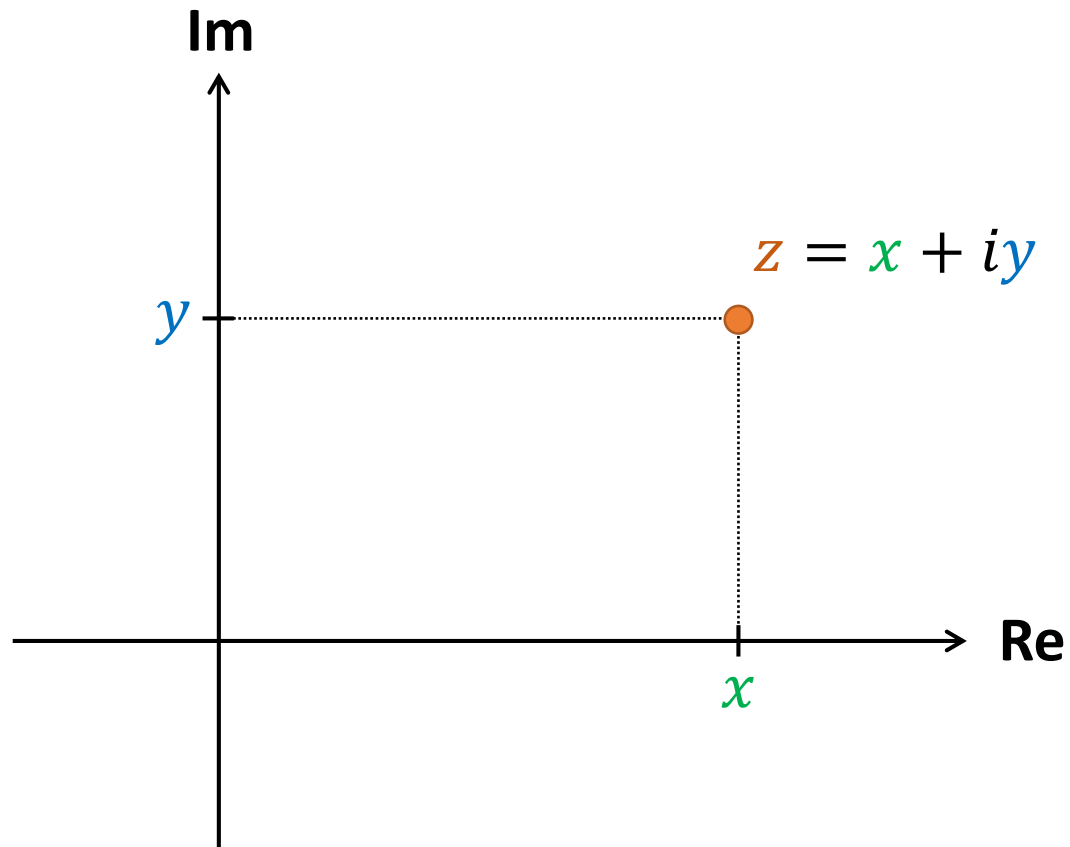
- $z \in \mathbb{C}$  can be represented as

$$z = x + iy \quad \text{for } x, y \in \mathbb{R}$$

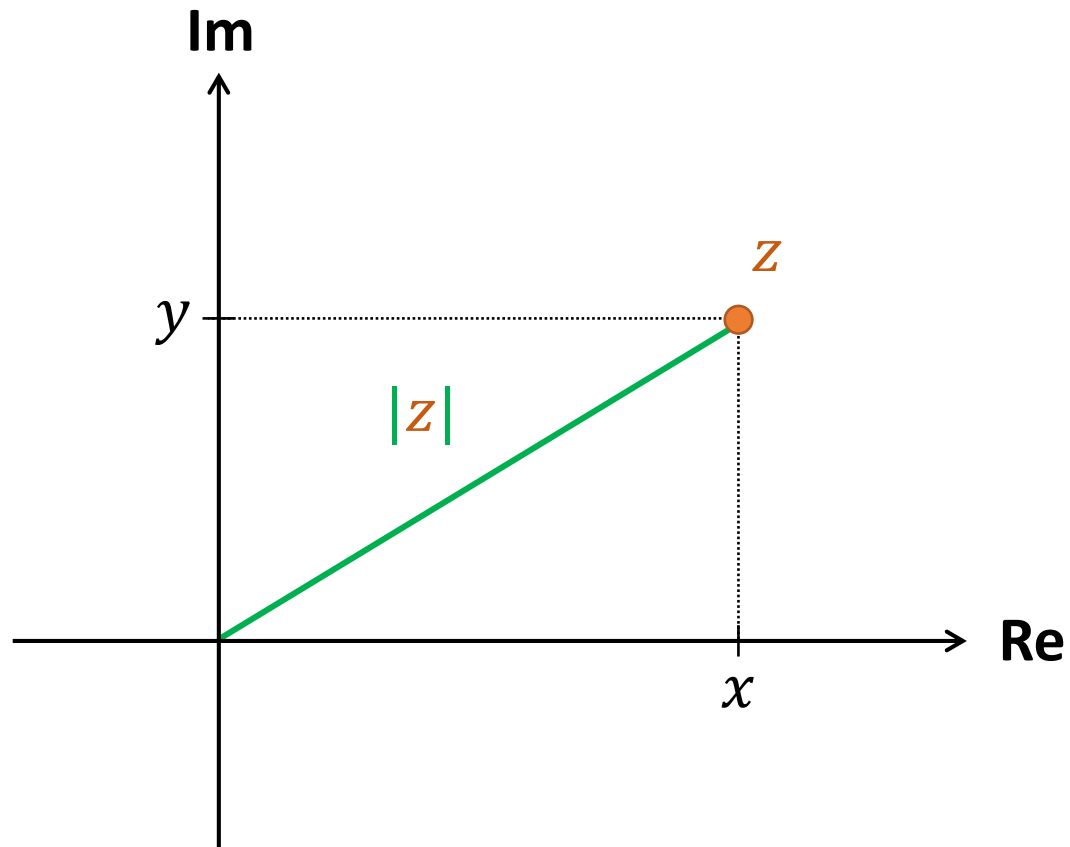
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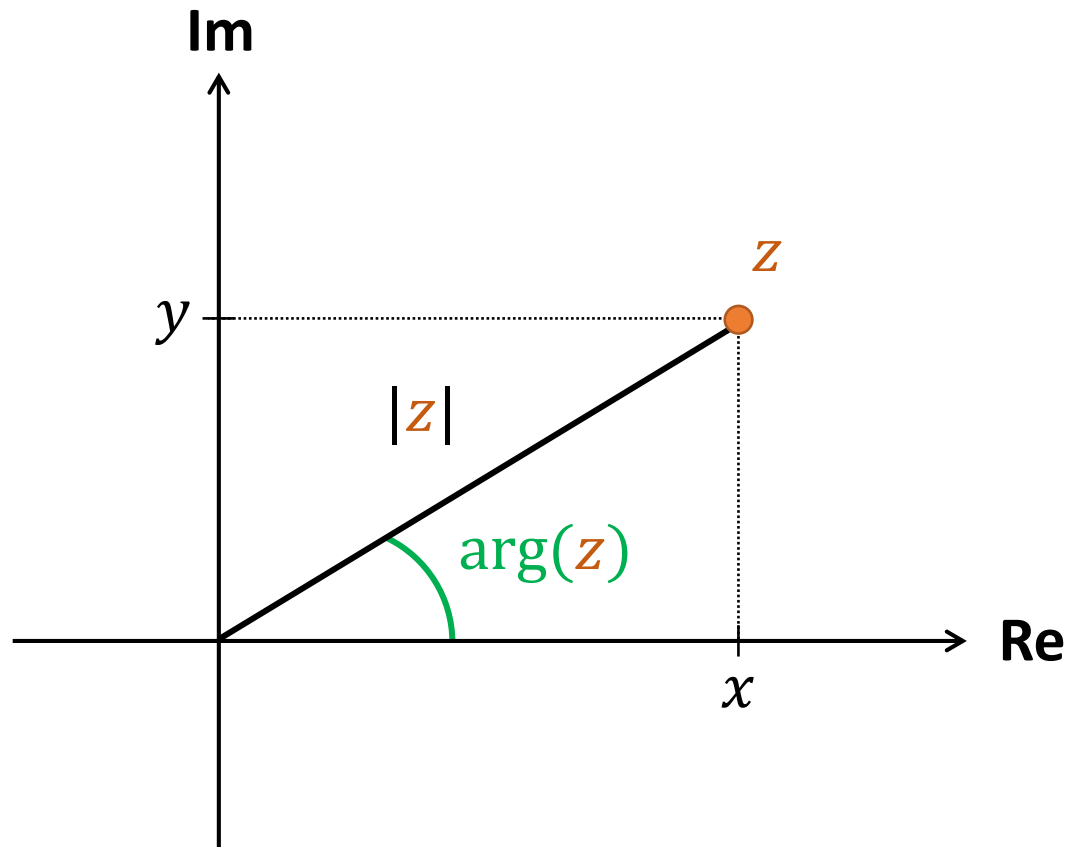
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