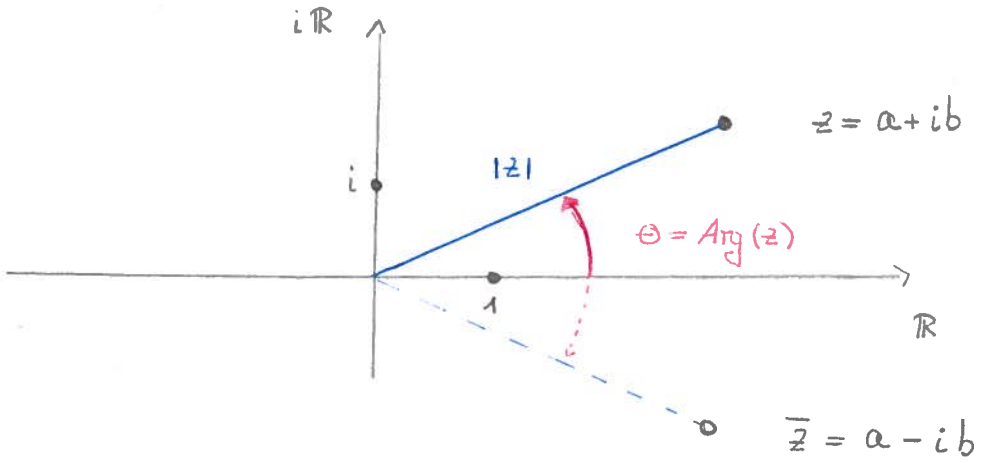
# REPETITION 23/08

## Graphical representation of complex numbers




## Polar form of a complex numbe

$$z = |z|\left(\cos\epsilon + i\sin\epsilon\right) \quad , \quad \epsilon = Arg(z)$$

**Proposition 12** Let $z, \omega \in \mathbb{C}$, then

- $|z\omega| = |z||\omega|$
- $Arg(z\omega) = Arg(z) + Arg(\omega)$

**Notice** Multiplication in $\mathbb{C}$