Name :

Complex Analysis - Exercises 2

Exercise 1 : Compute :

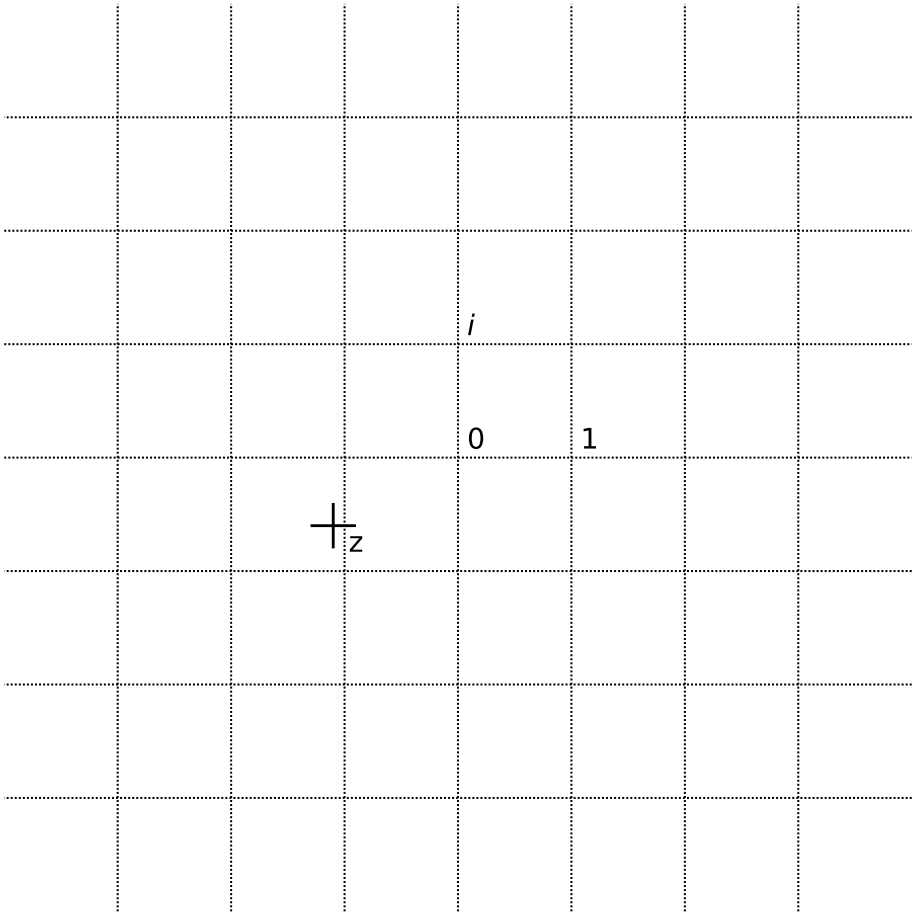
- $|2+5i|$

- $3e^{\frac{\pi}{3}i}$

Exercise 2 : Find all $\theta \in \mathbb{R}$ such that $e^{\theta i} \in \mathbb{R}$.

Please turn over $\rightarrow$

Exercise 3 : Draw $2 + e^{\frac{4\pi}{5}i}\overline{z}$ on the following diagram :



Justify by a geometric construction (you can draw other points and their geometric relations for example).