

Exercises

1) Assuming the components of the complex numbers Z_1 and Z_2 as shown on the Argand's plane integers, show in the same plane the complex numbers:

$$Z_s = Z_1 + Z_2$$

$$Z_p = Z_1 \cdot Z_2$$

2) Find the modulus of Z_1 , Z_2 and Z_p .

What relation between these moduli do you notice?

3) Find the arguments of Z_1 , Z_2 and Z_p .

What relation between these arguments do you notice?

4) Can you prove these statements for any $Z_1, Z_2 \in \mathbb{C}$?

