

Exercises: Representing Elements of the Complex Plane (Part 2)

Exercise 1: Consider the complex plane with the following three points: $z_1 = 1 + 2i$, $z_2 = 3 - i$, and $z_3 = -2 + 3i$. Plot these points on the complex plane and connect them to form a triangle. Find the area of this triangle.

Solution:

1. Plotting the points and connecting them

The complex plane is a 2D coordinate system where the horizontal axis is the real axis and the vertical axis is the imaginary axis. The points $z_1 = 1 + 2i$, $z_2 = 3 - i$, and $z_3 = -2 + 3i$ are plotted and connected to form a triangle.

2. Finding the area of the triangle

The area of a triangle in the complex plane can be found using the formula:

$$\text{Area} = \frac{1}{2} |z_1(z_2 - z_3) + z_2(z_3 - z_1) + z_3(z_1 - z_2)|$$

Substituting the values of z_1 , z_2 , and z_3 :

$$\text{Area} = \frac{1}{2} |(1 + 2i)(3 - i - (-2 + 3i)) + (3 - i)(-2 + 3i - (1 + 2i)) + (-2 + 3i)(1 + 2i - (3 - i))|$$

Simplifying the expression:

3. Final answer:

The area of the triangle is $\frac{1}{2} |10 - 10i + 10i - 10| = \frac{1}{2} |0| = 0$.

Therefore, the area of the triangle is 0.

Exercise 2: Representing Elements of the Complex Plane

Exercise 2: Consider the complex plane with the following three points: $z_1 = 1 + 2i$, $z_2 = 3 - i$, and $z_3 = -2 + 3i$. Plot these points on the complex plane and connect them to form a triangle. Find the area of this triangle.

Solution:

- Plot the points $z_1 = 1 + 2i$, $z_2 = 3 - i$, and $z_3 = -2 + 3i$ on the complex plane and connect them to form a triangle.
- Find the area of the triangle using the formula: $\text{Area} = \frac{1}{2} |z_1(z_2 - z_3) + z_2(z_3 - z_1) + z_3(z_1 - z_2)|$.
- Substituting the values of z_1 , z_2 , and z_3 :
- The area of the triangle is $\frac{1}{2} |10 - 10i + 10i - 10| = \frac{1}{2} |0| = 0$.

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