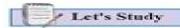


1 COMPLEX NUMBERS





- A complex number (C.N.)
- Algebra of C.N.
- Geometrical Representation of C.N.
- Polar & Exponential form of C.N.
- De Moivre's Theorem.



- Algebra of real numbers.
- Solution of linear and quadratic equations
- Representation of a real number on the number line
- Representation of point in a plane
- Trigonometric ratios

Introduction:

Consider, the equation $x^3 + 1 = 0$. This equation has no solution in the set of real numbers because there is no real number whose square is -1. We need to extend the set of real numbers to a larger set, which would include solutions of such equations.

We introduce a symbol i (greek letter iota) such that $i = \sqrt{-1}$ and $i^2 = -1$. i is called as an imaginary unit or an imaginary number.

Swiss mathematician Leonard Euler (1707-1783) was the first mathematician to introduce the symbol i with $i = \sqrt{-1}$ and $i^2 = -1$.

1.1 A Complex number:

1.1(a) Imaginary Number:

A number of the form bi, where $b \in \mathbb{R}$, $b \neq 0$, $i = \sqrt{-1}$ is called an imaginary number

Ex:
$$\sqrt{-25} = 5i$$
, $2i$, $\frac{2}{7}i$, $-11i$ etc.

Notes

The number i satisfies following properties,

- i) $t \times 0 = 0$
- ii) If $a \in \mathbb{R}$, then $\sqrt{-a^2} = \sqrt{i^2a^2} = \pm ia$
- iii) If $a, b \in \mathbb{R}$, and a' = b' then a = b

1.1 (b) Complex Number:

Definition: A number of the form a+ib, where $a, b \in \mathbb{R}$ and $i = \sqrt{-1}$ with $i^{i} = -1$ is called a complex number and is usually denoted by z.

That is z = a+ib, a, $b \in R$ and $i = \sqrt{-1}$

Here 'a' is called the real part of z and is denoted by Re(z) or R(z). 'b' is called imaginary part of z and is denoted by Im(z) or I(z)

The set of complex numbers is denoted by C

Ex:

2	a+ib	Re(z)	Imm(z)
2+4/	2+4/	2	4
51	0+5/	0	5
3-4/	3-4/	3	-4
$5+\sqrt{-16}$	5+41	5	4
2+√5/	2+√5/	2	√5
7+√3	$(7+\sqrt{3})+0i$	$(7+\sqrt{3})$	0

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Daniel F McAuley

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