

REAL & COMPLEX NUMBERS SYSTEM

COMPLEX NUMBERS

Complex number usually denoted by $(z = a + ib)$. In complex numbers there are only two components or parts i.e. Real (a) and Imaginary (b) Both belongs to the set of Real Numbers.

IMAGINARY NUMBERS

"i" is called an imaginary number because there is real number "x" satisfying the property $x^2 = -1$. The number of the form "i b" is called an imaginary number.

OPERATIONS ON COMPLEX NUMBERS

- i) Addition, $(a, b) + (c, d) = (a + c, b + d)$
- ii) Subtraction, $(a, b) - (c, d) = (a - c, b - d)$
- iii) Multiplication, $(a, b) \cdot (c, d) = (ac - bd, ad + bc)$
- iv) Division, $\frac{(a, b)}{(c, d)} = \left(\frac{ac + bd}{c^2 + d^2}, \frac{bc - ad}{c^2 + d^2} \right)$

CONJUGATE OF A COMPLEX NUMBER

$(a - ib)$ is a complex conjugate of $(a + ib)$, denoted by $(a, -b)$ or by $\bar{z}$.

MODULUS OF A COMPLEX NUMBER

Modulus of a complex number z is $|z| = \sqrt{a^2 + b^2}$. This value represents the distance from the origin to the point representing the complex number. This shows that, $|\bar{z}| = |z|$

PROPERTIES OF COMPLEX NUMBER

- i) $z_1 + z_2 = z_1 + z_2$
- ii) $z_1 \cdot z_2 = z_1 \cdot z_2$
- iii) $z \cdot \bar{z} = \bar{z} \cdot z = |z|^2$
- iv) $|z_1 \cdot z_2| = |z_1| \cdot |z_2|$

FURTHER PROPERTIES

- i) Complex numbers are closed w.r.t addition and multiplication.
- ii) Complex numbers are ASSOCIATIVE AND COMMUTATIVE w.r.t. both addition and multiplication.
- iii) Additive and multiplicative identities exists in complex number, i.e. $(0, 0)$ and $(1, 0)$ respectively.
- iv) Additive and multiplicative inverse also exists in complex numbers, $(-a, -b)$ and $\frac{1}{(a, b)} = \left(\frac{a}{a^2 + b^2}, \frac{-b}{a^2 + b^2} \right)$
- v) Multiplication is DISTRIBUTIVE over addition in complex number, i.e. $(a, b) \cdot \{(c, d) + (e, f)\} = (a, b) \cdot (c, d) + (a, b) \cdot (e, f)$.

EQUAL COMPLEX NUMBER

Two complex numbers are equal if and only if the real terms and the imaginary terms are separately equal

$$a + ib = c + id \quad \Leftrightarrow \quad \begin{cases} \operatorname{Re}(a + ib) = \operatorname{Re}(c + id) \\ \operatorname{Im}(a + ib) = \operatorname{Im}(c + id) \end{cases}$$

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Puja Mehta



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