

Complex numbers

$$z = re^{i\theta}$$

Complex numbers are in the form $a + bi$, where a and b are real numbers.

$$z = a + bi + 0j$$

The complex conjugate of complex number z :

$$z^* = a - bi + 0j$$

Points z and z^* of a complex plane are conjugates, they will lie on conjugate points.

$$z = a + bi, z^* = a - bi$$

Whatever of anything is complex, another must will be the complex conjugate.

$$z = a + bi + 0j$$

$$z^* = a - bi + 0j$$

Complex numbers in the form $z = a + bi$ giving the representation in an Argand diagram where a , b are Cartesian coordinates.

The modulus of complex number $z = a + bi$ where a is x or y or z or z^* .

$$|z| = \sqrt{a^2 + b^2} = |z^*|$$

The argument arg z is the angle θ between the positive real x -axis and the vector $\begin{pmatrix} a \\ b \end{pmatrix}$.

$$\arg z = \theta$$

$$-\pi < \theta \leq \pi$$

The modulus argument form of $z = a + bi$:

$$z = r(\cos \theta + i \sin \theta)$$

For complex numbers z_1 and z_2 :

$$|z_1 z_2| = |z_1| |z_2|$$

Interval Notation

- Find an interval in which the change of sign.
- Take the mid-point as an approximation.
- Repeat using mid-point between previous mid-point and original limit where there is a change of sign.

Linear Interpolation

- Draw a sketch of function $f(x)$ for given interval $[a, b]$.
- Take a few between points on curve at x coordinates, y and z , where this line intersects the x -axis is your first approximation.
- Use similar triangles to find this point, ratio of heights is same for ratio of bases.
- Repeat using approximations and one of the original limits where there is a change of sign between them. Repeat until answer found to required degree of accuracy.

Newton's Method

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Peter I. Kattan



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