

Complex numbers

$$z = re^{i\theta} = r(\cos \theta + i \sin \theta)$$

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

$$z = a + ib \text{ and } \bar{z} = a - ib$$

The complex conjugate of complex number z :

$$z^* = \bar{z} = a - ib$$

Points z and \bar{z} of a complex plane are conjugates, they will lie on conjugate points.

$$z = a + ib \text{ and } \bar{z} = a - ib$$

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

$$z = a + ib \text{ and } \bar{z} = a - ib$$

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

The modulus of complex number $z = a + ib$ (where a is real, b is imaginary) is $|z| = \sqrt{a^2 + b^2}$.

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

The argument arg z is the angle θ between the positive real (x -axis) and the vector z .

$$\arg z = \theta$$

$$z = a + ib \text{ and } \bar{z} = a - ib$$

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

$$z = r(\cos \theta + i \sin \theta) = re^{i\theta}$$

For complex numbers z_1 and z_2 :

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

Isolated Singularities

- Find an interval in which the function is not zero.
- Take the limit point as an approximation.
- Repeat using limit point between previous limit 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 points (usually 10 or 20) and use a calculator to find the value of the function at these points.
- Use linear interpolation to find the value of the function at the points where the function is zero.
- Repeat using approximation and use of the original function 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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