



Complex Numbers

- Section 1 - Imaginary and Complex Numbers
- Section 2 - Operations with Complex Numbers
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- Section 9 - Nth Roots of Complex Numbers

Section 1 - Imaginary and Complex Numbers

- Imaginary Numbers
- Complex Numbers

Section 2 - Operations with Complex Numbers

- Adding & Subtracting Complex Numbers
- Multiplying Complex Numbers
- The Complex Conjugate & Dividing Complex Numbers

Section 3 - Roots of Quadratic Equations

- Complex Solutions to Quadratic Equations
- Complex Conjugate Pair Solutions
- Problems Involving Complex Conjugate Pair Solutions

Section 4 - Argand Diagrams

- Starting Argand Diagrams
- Vector Representation of Complex Numbers
- Adding & Subtracting Complex Numbers on an Argand Diagram

Section 5 - Modulus-Argument Form

- The Modulus of a Complex Number
- The Argument of a Complex Number
- The Modulus-Argument form of a Complex Number
- Rules for the Modulus-Argument form of a Complex Number



Section 6 - Loci in the Argand Diagram

What is a Locus of Points?

Circle Loci on an Argand Diagram

Section 7 - Exponential Form of Complex Numbers

Exponential Form of Complex Numbers

Multiplying Complex Numbers in Exponential Form

Dividing Complex Numbers in Exponential Form

Section 8 - De Moivre's Theorem

Starting De Moivre's Theorem

Using De Moivre's Theorem

Section 9 - Nth Roots of Complex Numbers

Periodic Trigonometric Functions

The Nth Root of Complex Numbers

Finding the Nth Root of Complex Numbers