

## CHAPTER OVERVIEW

### 2: Complex Numbers

#### Chapter Objectives

- Be able to perform basic arithmetic operations with complex numbers.
- Understand the different forms used to express complex numbers (cartesian, polar and complex exponentials).
- Calculate the complex conjugate and the modulus of a number expressed in the different forms (cartesian, polar and complex exponentials).
- Be able to manipulate complex functions.
- Be able to obtain expressions for the complex conjugate and the square of the modulus of a complex function.

[2.1: Algebra with Complex Numbers](#)

[2.2: Graphical Representation and Euler Relationship](#)

[2.3: Complex Functions](#)

[2.4: Problems](#)

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