



Complex Numbers Checklist

Achievement

I can:

- Select and use methods related to:
 - Quadratic and cubic equations with complex roots
 - Argand diagrams
 - Polar and rectangular forms
 - Manipulation of surds and complex numbers
 - Loci
 - De Moivre's theorem
 - Equations of the form $z^n = r \text{ cis } \theta$ or $z^n = a + bi$
- Demonstrate knowledge of concepts and terms related to complex numbers
- Communicate using appropriate representations (e.g., algebraic, graphical)

Merit

I can

- Select and carry out a logical sequence of steps to solve problems
- Connect different concepts or representations of complex numbers
- Demonstrate understanding of complex number concepts
- Form and use models involving complex numbers
- Relate findings to a context or communicate thinking using appropriate mathematical statements

Excellence

I can:

- Devise a strategy to investigate or solve a problem involving complex numbers
- Identify relevant concepts in context
- Develop a chain of logical reasoning or proof
- Form generalizations about the behavior of complex numbers
- Use correct mathematical statements and communicate mathematical insight