



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 $z^n = r \operatorname{cis} \theta$ 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