

Further Pure Mathematics 1

Complex Numbers

Section 1: Introduction to complex numbers

Crucial points

1. **Always simplify j^2**
Remember that when you are working with complex numbers, you should always simplify j^2 to -1 .
2. **Remember that zz^* is always real**
In particular, remember that you can use this in dividing complex numbers.
3. **Make sure that you know the condition for equality**
For two complex numbers to be equal, the real parts must be equal and the imaginary parts must be equal.