**1A/B Introducing i**

1. Simplify
2. Write √-36 in terms of i
3. Write √-28 in terms of i

1. Solve the Equation

**1C Multiplying Complex Numbers**

1. Simplify
2. Simplify

**1D Complex Conjugates**

1. Write down the complex conjugate of:
2. Find z + z\*, and zz\*, given that:
3. z = 2 – 7i
4. z = 2√2 + i√2
5. Write the following in the form

**1E Complex Roots of Quadratics**

1. Find the quadratic equation that has roots 3 + 5i and 3 – 5i

**1F Complex Roots of Cubics & Quartics**

1. Given that -1 is a root of the equation:

Find the other two roots of the equation.

Notes on Solutions for Cubic & Quartic Equations

1. Given that 3 + i is a root of the quartic equation:

Solve the equation completely.