

Worksheet: Complex Numbers and Quadratic Equations

IB · Class 11 · Mathematics · 3 questions · 12 marks

Name: _____

Date: _____

Score: _____ / 12

Q1. Evaluate: $i^{2019} + i^{2020} + i^{2021} + i^{2022}$ [2 marks]

Q2. Express $(3+4i)/(12i)$ in the form $a+ib$ and find its modulus. [4 marks]

Q3. Solve: $x^2 - 2x + 5 = 0$ and verify that the roots are complex conjugates. [6 marks]
