Practice worksheet | Complex numbers

Complex-number arithmetic

Name: _____ Date: _____

6 questions | 14 marks

1. Calculate $(5 + i) - (2 - 4i)$. [2 marks]

2. Calculate $(2 - 3i)(-1 + 2i)$. [3 marks]

3. Expand $(3 + 2i)^2$. [2 marks]

4. Find i^{2026}. [2 marks]

5. Solve $2z + 3i = 8 - i$. [2 marks]

6. Evaluate $(1 + i)^4$ without using a calculator. [3 marks]