Name: _____

Date: _____

Instructions: Please complete the following problems

Problem 1. What is i^{11} ?

Problem 2. What is i^{27} ?

Problem 3. Simplify the expression: (6 - 2i)(2 - 3i)

Problem 4. Simplify the expression: (5 - 4i) - (7 + 8i) + (6 - 2i)

Problem 5. What is the conjugate of 8 - 7i?

Problem 6. Write this quotient in standard form: $\frac{2}{i^{-5}}$

Problem 7. Write this quotient in standard form: $\frac{2-3i}{4-2i}$

Problem 8. Write this quotient in standard form: $\frac{-3}{i}$

Problem 9. Write this quotient in standard form: $\frac{2-i}{5+i}$