| 1. Write the expression in standard form. $3 i-8 i^{6}+3 i^{3}-4+7 i-5 i^{2}$ | 2. Write the expression in standard form. $8-\sqrt{-35}$ |
| :---: | :---: |
| 3. Multiply by the complex conjugate and write in standard form. $(4-3 i)$ | 4. Multiply by the complex conjugate and write in standard form. $3-\sqrt{-40}$ |
| 5. Multiply by the complex conjugate and write in standard form. $\sqrt{-36}$ <br> Hint: If you write this in standard form (a + bi) what does it look like? Does it have both a real and imaginary part? Think carefully about what the conjugate is. | 6. Multiply by the complex conjugate and write in standard form. $\sqrt{10}$ <br> Hint: If you write this in standard form (a+bi) what does it look like? Does it have both a real and imaginary part? Think carefully about what the conjugate is. |
| 7. Perform the necessary operation to write the expression in fully simplified standard form. $\frac{1+4 i}{3+3 i}$ | 8. Perform the necessary operation to write the expression in fully simplified standard form. $\frac{3}{1+\sqrt{-4}}$ |
| 9. Perform the necessary operation to write the expression in fully simplified standard form. $\frac{i}{3-2 i}+\frac{2 i}{3+8 i}$ | 10. Solve using the quadratic formula to write the expression in fully simplified standard form. $9 x^{2}-6 x+37=0$ |
| 11. Solve using the quadratic formula to write the expression in fully simplified standard form. $3 x^{2}-2 x+5=0$ | 12. Perform the necessary operation to write the expression in fully simplified standard form. $\sqrt{-7}^{5}$ |

