Name: _____ Date: _____Period: _____Algebra II

Chapter 5 Team Review

Directions: On another sheet of paper, do the following problems.

1. Solve by completing the square.

$x^2 + 12x = 1$

2. Solve and graph $x^2 + 2x < 8$.

3. Find $|9-3i|$.

4. Solve by completing the square.

$3x^2 + 6x = 24$

5. Solve by completing the square.

$3x^2 - 12x - 21 = 0$

6. Solve and graph $x^2 - 81 < 0$.

7. Solve by completing the square.

$x^2 - 10x - 3 = 0$

8. Simplify $(4+5i) - (-9+2i)$.

9. Find the complex conjugate of $4i + 5$.

10. Simplify $-8i^{23}$.

11. Simplify $\frac{4 + 3i}{5 - 2i}$

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Solve and graph $x^2 - 13x + 22 \geq 0$	Solve and graph $3x^2 + 2x - 1 \geq 0$	Find the number a solutions. $3x^2 + 5x$
Find the number and the types of solutions. $5x^2 + x + 4 = 0$	Find the number and the types of solutions. $2x^2 - 6x = -2$	Find the number a solutions. $4x^2 - 7x$