

Section 5.5
Complex Numbers and Roots
Worksheet #2

Algebra 2

Name _____

Simplify. Express each number in terms of i .

1. $\sqrt{-16}$

2. $\sqrt{-44}$

3. $\sqrt{-75}$

4. $2\sqrt{-25}$

Solve each equation over the set of complex numbers.

5. $4x^2 = -1$

6. $3x^2 + 75 = 0$

7. $5x^2 + 500 = 0$

8. $x^2 + 9 = 0$

Find each complex conjugate.

9. $-4i$

10. $-2 - 5i$

11. $\sqrt{5} + 7i$

12. $3i - 4$