

Section 5.5 Algebra 2
Complex Numbers and Roots
Worksheet #1

Name _____

Simplify. Express each number in terms of i .

1. $\sqrt{-4}$

2. $\sqrt{-20}$

3. $\sqrt{-32}$

4. $3\sqrt{-9}$

Solve each equation over the set of complex numbers.

5. $x^2 = -81$

6. $4x^2 + 48 = 0$

7. $x^2 + 25 = 0$

8. $6x^2 = -126$

Find each complex conjugate.

9. $-3i$

10. $-3 - 2i$

11. $\sqrt{2} + 4i$

12. $-1 + 8i$