Warm Up Unit 4: Radical Functions and Rational Exponents Algebra 2 Kitt

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_

**4.1 & 4.2 Simplifying Radicals and Operations of Radicals**

*Directions: Simplify the radical expressions.*

1. 2. 3.

4. 5. 6.

7. 8. 9.

**4.3 Rational Exponents**

*Directions: Rewrite each rational exponent as a radical and evaluate.*

10. 11. 12.

**4.4 Composition Functions and Operations**

*Find for each pair of functions.*

13. 14.

**4.5 Use Inverse Operations**

*Find the inverse of each function. State whether or not the inverse is a function.*

15. 16.

**4.6 Interval Notation**

**Directions***: Find the domain and write it in interval notation.*

17. 18. 19.

**4.7 Graphing Radical Functions**

**Directions***: Graph each function. Sate the domain and range in interval notation.*

20. 21. 22.

Domain:\_\_\_\_\_\_\_\_\_\_ Domain: \_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_

**4.8 Solve Radical Equations**

**Directions***: Solve each equation. Check your solutions.*

23. 24. 25. 26.

**Miscellaneous: Investigate the Graphs**

