$\qquad$ Date: $\qquad$

| $\frac{\text { Honors Algebra } 2}{\text { Mrs. Poncin }}$ |
| :---: |

## Questions

Can I?.....

1. Find the roots of real numbers?
2. Simplify expressions involving radicals, sums, products, and quotients of radicals?
3. Solve radical expressions?
4. Find and use decimal representations of real numbers?
5. Use ito simplify square roots of negative numbers?
6. Add, subtract, multiply, and divide complex numbers?

## Common Core Math Standards

Number and Quantity

- Rewrite expressions involving radicals and rational exponents using the properties of exponents
- Know complex numbers in the form $\mathrm{a}+\mathrm{bi}$
- Perform operations and apply properties with complex numbers
- Find the conjugate of a complex number
Algebra
- Solve radical equations in one variable and give examples of how extraneous solutions may arise


## Notes from Mrs. Poncin

Similar to fractions, square roots are more exact when simplified, but not as decimals. A solid base of number factors is important.

| Powers, Roots, and Complex |
| :---: | :---: |
| Numbers |$\quad$| $\frac{\text { Preceding Unit }}{}$ |
| :---: |
| Rational Expressions and <br> Equations |

## College Readiness Standards

3. Numbers: Concepts \& Properties

- Use the inverse relationship for exponentiation and root extraction
- Perform operations and apply properties with complex numbers
- Work with squares, cubes, square roots, cube roots
- Apply rules of exponents

4. Expressions, Equations, \& Inequalities:

- Manipulate radical expressions


## Unit Sequence

Mon 1/5 Review Final Exam - Most Missed Questions
Tues 1/6 7.2 Multiply and Simplify Radical Expressions Assignment A: Worksheet

Wed 1/7 7.3 Operations with Radical Expressions Assignment B: Assignment B: pg. 303 \#1-51 every other odd; pg. 308 \#1-53 every other odd

Thurs 1/8 7.4 Finish Operations with Radical Expressions

## Assignment C: Review All Operations

Fri 1/9 Assignment D: Review 7.1-7.4; Concept Check
Mon 1/12 7.5 Rational Numbers as Exponents
Assignment E: pg. 315 \#3-72 m 3
Tues 1/13 Finish $7.5+$ Factoring
Assignment F: Worksheet 5.7
Wed 1/14 Review 7.1-7.5
Assignment G: Mid-chapter 7 Review
Thurs $1 / 15 \quad$ Mid-chapter Test 7.1-7.5
Tues 1/20 7.7 Imaginary \& Complex Numbers
Assignment H: pg. 323 \#1-47 odd, skip 41
Wed 1/21 7.9 More Complex Numbers; Concept Check
Assignment I: pg. 329 \#3-27 m3, 36, 37; pg. 333 \#17, 19, 21
Thurs 1/22 7.6/7.10 Investigation Solving Radical Eqns; Concept Check
Fri 1/23 Finish 7.6/7.10 Solutions of Radical Equations
Assignment J: pg. 319 \#3-45 m 3; pg. 333 \#1, 3, 5
Mon 1/26 Applications
Assignment K: Word problem worksheet
Tues 1/27 Review Chapter 7
Assignment L: Chapter Review

Wed 1/28
Chapter 7 Test

