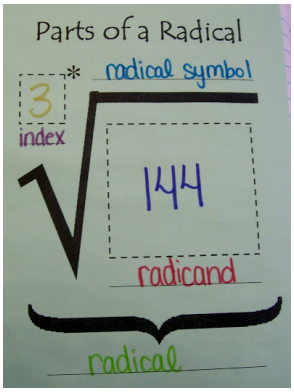
Name: _____

Unit #2 Review

Day 1 - Rational Exponents

- Properties of Exponents
  - Product Rule: _____
  - Quotient Rule: _____
  - Power Rule: _____
- Converting from Exponent Form to Power Form
  - Ex: $x^{1/4} = \sqrt[4]{x}$
  - The Denominator of the exponent replaces the I_____ of the radical
  - The _____ of the exponent remains as the power of the radicand.
- BTW - It works the same in the reverse



Day #2 - Complex Numbers

- Imaginary number: i^2 = ___
- Adding/Subtracting/Multiplying/Dividing - Treat "*i*" like a V_____
  - Convert ____ to -1 and then combine like terms.
- Complex numbers are made up of R_____ Numbers and I_____ Numbers
- Plotting Complex Numbers
  - The Real Axis is the same as the ____ -axis
  - The Imaginary Axis is the same as the _____ -axis

Day #3 - Desmos - Families of Functions

- Transformations

Day #4 - Solving Radicals

- Step 1: Isolate the R_____
- Step 2: Square or Cube both sides to get rid of the R_____
  - Note: This is dependent on what the I_____ is.
- Step 3: Finish solving the equation.
- Using your calculator for $\sqrt[3]{216}$
  - In your calculator press the following buttons:

    _____ _____ _____ _____

Day # 5 - Word Problems

- Sum of two consecutive numbers
- The first number is _____
- The second number is _____ + _____

Day #6 - Discovering Polynomials - Really part of Unit 3