**Unit 3: Rational Exponents and Radicals Video Notes Sheet**

**Please follow along with the video on my website and complete the following notes.**

* → This symbol is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_. Not a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Label the radicand, radical, and index as done in the video for this cube root:
* The word “rational” means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Ex.)** Write in radical form: \_\_\_\_\_\_\_\_\_\_\_\_. What does this simplify to? \_\_\_\_\_\_\_\_

What is the index? \_\_\_\_\_\_\_\_ What is the exponent? \_\_\_\_\_\_\_

**Ex.)** Write in rational exponent form: \_\_\_\_\_\_\_\_\_\_\_\_.

What is the index? \_\_\_\_\_\_\_\_\_ What is the exponent? \_\_\_\_\_\_\_

**Ex.)** Write in radical form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* Why is the 8 not supposed to be under the radical?

**Ex.**) Simplify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Complete the following practice problems and turn in!





