

### **Math Virtual Learning**

# Algebra 2/Honors Algebra 2

April 14, 2020



#### Algebra 2/Honors Algebra 2 Lesson: April 14, 2020

#### **Objective/Learning Target:**

Students will be able to simplify expressions using the zero and negative exponent properties.

#### Let's Get Started: Watch Video - Zero & Negative Exponents

#### Practice:

- 1. Get out a sheet of paper and go to this website <u>Zero Exponents & Negative</u> <u>Exponents</u>
  - a. Read the article and complete the 3 practice problems at the bottom of the page
  - RULE 1: Zero Exponent Property

$$b^0=1$$

**RULE 2: Negative Exponent Property** 

$$b^{-n} = \frac{1}{b^n} or \frac{1}{b^{-n}} = b^n$$

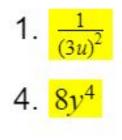
$$\frac{5(x^3)^0}{15(y^3)^0} = \frac{5(1)}{15(1)} \qquad 2^{-4} = \frac{1}{2^4}$$
$$= \frac{5}{15} \qquad = \frac{1}{16}$$
$$= \frac{1}{3}$$

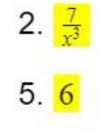
## **Practice:** On the same sheet of paper, practice the following problems

1. $(3uv^0)^{-2}$	2. $7x^{-3}$	<b>3</b> . $(-5x)^0$
4. $\frac{8}{y^{-4}}$	5. Find the value of $7x^0 - (6x)^0$	6. $-2m^{-6}n^3$

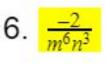
#### Practice Answer Key:

Once you have completed the problems, check your answers here









#### **Additional Practice:**

### Click on the links below to get additional practice and to check your understanding.

Negative Exponents Video

Zero Exponents Video

Zero Exponents Practice

Zero Exponents Practice Answer Key

**Negative Exponents** Practice

Negative Exponents Practice Answer Key