



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 [Zero Exponents & Negative Exponents](#)
  - a. Read the article and complete the 3 practice problems at the bottom of the page

2. 🔑 **RULE 1: Zero Exponent Property**

$$b^0 = 1$$

$$\frac{5(x^3)^0}{15(y^3)^0} = \frac{5(\textcolor{red}{1})}{15(\textcolor{red}{1})}$$

$$2^{-4} = \frac{1}{2^4}$$

- 🔑 **RULE 2: Negative Exponent Property**

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

$$= \frac{5}{15}$$
$$= \frac{1}{3}$$

$$= \frac{1}{16}$$

## Practice:

On the same sheet of paper, practice the following problems

1.  $(3uv^0)^{-2}$

2.  $7x^{-3}$

3.  $(-5x)^0$

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

1.  $\frac{1}{(3u)^2}$

2.  $\frac{7}{x^3}$

3. 1

4.  $8y^4$

5. 6

6.  $\frac{-2}{m^6n^3}$

## **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