Honors Algebra 2

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CHAPTER ONE

Radical and Polynomial Operations

Lesson 1: Rational Exponents

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In this lesson, I go over how you:

- Convert radical expressions to rational exponents.
- Convert rational exponents to radical expressions.

 $\textbf{Definition 1} \ (\text{Simplifying radical expressions}). \ \ \text{Rational expressions can} \\ \text{be written as radical exponents.}$

$$t^{\frac{3}{4}} = t^{\frac{3}{4}} \times t^{\frac{3}{4}} \times t^{\frac{3}{4}}.$$

$$\sqrt[4]{t^3} = \sqrt[4]{t} \times \sqrt[4]{t} \times \sqrt[4]{t}.$$

$$t^{\frac{3}{4}} = \sqrt[4]{t^3}.$$

 $\textbf{Definition 2} \ (\text{Simplifying radical expressions}). \ \ \text{Radical expressions can} \ be \ written \ as \ rational \ exponents.$

$$\sqrt[5]{x^3} = \sqrt[5]{x} \times \sqrt[5]{x} \times \sqrt[5]{x}.$$

$$x^{\frac{3}{5}} = x^{\frac{1}{5}} \times x^{\frac{1}{5}} \times x^{\frac{1}{5}}.$$

$$x^{\frac{3}{5}} = \sqrt[5]{x^3}.$$

Todo list