**Module 4 Lesson 3:**

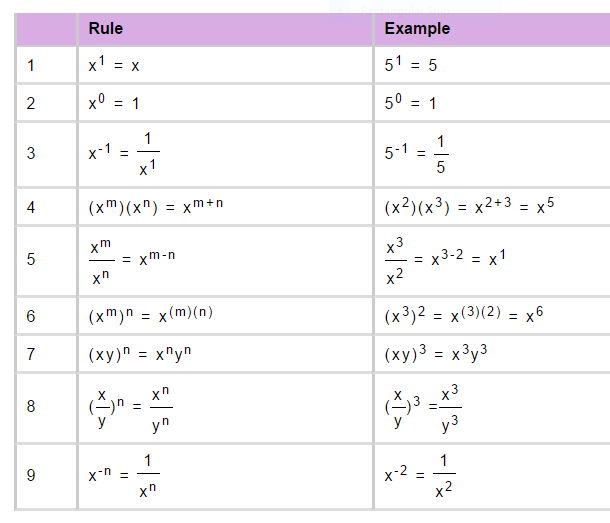
**Rules of Exponents**

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**Learning Target:**

* **I can use the rules of exponents to simplify expressions involving positive, negative, zero, and rational exponents.**

**Rules of Exponents:**



**Fractional Exponents:**

**Rule: is the same as or**

**Simplify each of the following using the rules of exponents:**

**Ex. Ex.**

**Ex. Ex.**

**Ex. Ex.**

**Ex. Compute:**

**Now let’s take a look at negative exponents………**

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**Simplify the following and express the final answer without using any negative exponents.**

**Ex. Ex.**

**Ex. Ex.**

**Ex. Ex.**

**Ex. Ex.**

**Ex. Ex.**