**Rational Exponents**

**CCSS.Math.HSN-RN.A.1** *Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents. For example, we define 5 to the 1/3 power to be the cube root of 5 because we want (5 to the 1/3 power) to the power of 3 to equal 5, so (51/3)3 = 5.*

**Learning Target:** I can demonstrate and explain how rational exponents can be used to model the following exponent properties , , and .

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| Integer Exponent Property | Example using at least one rational exponents | List any changes that needed to be made to the examples |
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