3-14)  Describe everything you know about . Be prepared to explain your findings to the class.

* What is its value?
* How can you rewrite it using a single exponent?
* What new conclusions can you draw?

3-15) Explore the meaning of  , , etc. Simplify each of the expressions below ***twice***: Once by expanding the terms and simplifying, and then again by using your new pattern for division with exponents.

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Write your findings.

3-16)  Use your exponent patterns to rewrite each of the expressions below.  Simplify until there are not negative exponents in the expression.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

**Learning Log:** Describe the meaning of zero and negative exponents. Explain how to interpret and .