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GSE Algebra 1 Day 01 - Properties of Exponents Notes Day 1

**Exponent Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| **What you need to know & be able to do** | **Things to remember** | **Example #1** | **Example #2** |
| **Product of Powers**  an am = an + m | Multiply coefficients. Keep the base the same. Add the exponents | 1. Simplify | 2. Simplify |
| **Power to Another Power**  (am)n = amn | Raise the coefficient to the power. Keep the base the same. Multiply the exponents. | 3. Simplify | 4. Simplify |
| **Quotient of Powers** | Divide the coefficients. Keep the base the same. Subtract the exponents. | 5. Simplify | 6. Simplify |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_  GSE Algebra 1 Day 02 - Properties of Exponents Notes Day 2  **Exponent Properties** | | | |
| **Zero Exponents**  a0 = 1  **Negative Exponents** | Any number or variable to the zero power is 1.  **Example:**    Any number or variable to a negative exponent needs to move to a different part of the fraction.  **Example:** | 7. Simplify | 8. Simplify |
| 9. Simplify | 10. Simplify |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_

GSE Algebra 1 Day 02 - Properties of Exponents Practice

**Practice Problems: Simplify each expression. Assume no denominator equals zero.**

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