Accel. Algebra II Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Exponent Rules Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**REMEMBER THE RULES OF EXPONENTS:**

|  |  |  |
| --- | --- | --- |
|  | When MULTIPLYING with the same base, we \_\_\_\_\_\_\_\_\_\_ the exponents. |  |
|  | When DIVIDING with the same base,  we \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the exponents. |  |
|  | When finding the POWER OF A PRODUCT,  we \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the exponent. |  |
|  | When finding a POWER OF A QUOTIENT,  we \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the exponent. |  |
|  | When finding a POWER OF A POWER,  we \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the exponents. |  |
|  | A NEGATIVE exponent \_\_\_\_\_\_\_\_\_\_\_\_ the fraction. |  |
|  | **YOU’LL MAKE MY BRAIN EXPLODE!!!** | **NO NO NO!** |

Simplify each of the following. Your final answers should have no negative exponents.

1.  2.  3. 

4.  5.  6. 

7.  8.  9. 

10.  11.  12. 

13.  14.  15. 

16.  17.  18. 

19.  20. 