SECONDARY MATH 2

**CORE STANDARDS**

II.1.N.RN.1

II.1.N.RN.2

LESSON

**1-2**

OBJECTIVE **1. SWBAT simplify expressions using properties of exponents.**

NOTES PROPERTIES OF EXPONENTS

Zero Exponent  Power Rule 

Product Rule  Power of a Product 

Quotient Rule  Power of a Quotient 

Negative Exponent 

The following examples will help familiarize you with the use of these properties.

EXAMPLES Simplify.

**1.**  **2.** 

**3.**  **4.** 

**5.**  **6.** 

PRACTICE **1-2** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[SHOW YOUR WORK] [WRITE ALL ANSWERS IN SIMPLIFIED FORM]

Simplify. Write your answers in terms of positive exponents.

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. 
13. 
14. 

Multiply. REVIEW 1-1

1. 
2. 
3. Examine your answer to #4 above. How many terms does it have? \_\_\_\_\_\_What is its degree? \_\_\_\_\_\_

1. Find the volume of the cylinder in terms of *x* and *π*.

