**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Visca – Alg2R: Unit 4 Lesson 7 HW**

**Applying Properties to Rewrite Logarithms in Equivalent Forms**

1. If and , then is equivalent to
   1. c.
   2. d.
2. If and , then is equal to
   1. c.
   2. d.
3. If and , the expression is equivalent to
   1. c.
   2. d.
4. If and , what is the numerical value of ?
   1. c.
   2. d.

**A variety of Practice Problems**

Expand each log

Write each expression as a single logarithm

Use the properties of logarithms to evaluate each expression.