

**LOGARITHMS**

Logarithms are the \_\_\_\_\_\_\_\_\_\_\_ of exponential functions.

|  |  |
| --- | --- |
| **Exponential Form** | **Logarithmic Form** |
| **Example: Rewrite the exponential function in logarithmic form.** (See the “L” for Log)

|  |  |
| --- | --- |
| a.)  | b.)  |
| c.)  | d.) Note: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

 |
| **Example: Rewrite the logarithm in exponential form.**  (See the “e” for exponential)

|  |  |
| --- | --- |
| a.)  | b.)  |
| c.) Note: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | d.) Note: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

 |

**Evaluating Logs:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Base 10: Plug directly into the calculator!\*If you have the TI-36 Pro, hit the “log” button **TWICE**.**Example: Evaluate. Round any decimal answers to the hundredths place.**

|  |  |
| --- | --- |
| a.)  | b.)  |
| c.)  | d.)  |

 |

Non-Base 10: Use the “change of base” formula to calculate!

\*If you have the TI-36 Pro, hit the “log” button **3 times** and type in calculator without having to use formula.



**Example: Evaluate. Round any decimal answers to the hundredths place.**

|  |  |
| --- | --- |
| a.)  | b.)  |
| c.)  | d.)  |