**CHAPTER 3:**

***Logarithmic Functions* (Page 268 – 295)**

**Objectives:**

* Recognize that the inverse of an exponential function is a logarithmic function.
* Graph logarithmic functions.
* Know and use the properties of common logarithms, which have a base of 10.
* Know and use the properties of natural logarithms, which have a base of ***e***.
* Solve exponential equations with and without logarithms.
* Solve logarithmic equations.

**WEDNESDAY (1.8.25)**

**Entry Work:**

* **Review\_\_\_**

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| --- |
| 1. **Express the following as a single logarithm:** le7. |
| **(2) Write in expanded form:**le5**.** |

* Page 283, #43 – 46.

**Class Work/Homework:**

* **Read and take notes** on Section 3.5, *Equation Solving and Modeling*, pages 286 – 288, focusing on examples 1, 3, and 4.
* **Page 295,** ***Exercises***, #1 – 13 odd, 17.

**FRIDAY (1.10.25)**

* **Discuss the work assigned previously:** Page 295, ***Exercises***, #1 – 13 odd, 17.
* **Class Work/Homework:** Page 295, ***Exercises,*** #2 – 14 even, 18.