**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.

**TUESDAY (1.14.25)**

**Discuss the previously assigned work:** Page 295, ***Exercises,*** #2 – 14 even, 18.

**Class Work/Homework:** Page 295, ***Exercises***, #15, 16, 25, 27, 33, 35, 37.

**THURSDAY (1.16.25)**

**Discuss the previously assigned work:** Page 295, ***Exercises***, #15, 16, 25, 27, 33, 35, 37.

**Class Work:** Page 295, ***Exercises***, #34, 36, 38.

**Homework: Review \_\_\_*Solving Exponential and Logarithmic Equations* (Handout to be received in class).**

**FRIDAY (1.17.25) A-DAY, NO CLASS**

**TUESDAY (1.21.25)**

**Discuss the previously assigned Review \_\_\_*****Solving Exponential and Logarithmic Equations.***

**Homework:** **Study for the Test:** ***Solving Exponential and Logarithmic Equations*** to be taken on Thursday, 1.23.25. You may use one sheet of paper and your TI-84 graphing calculator when you take this test.