**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 (1.21.25)**

**Homework Check:** Page 295, ***Exercises***, #34, 36, 38.

**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.

**THURSDAY (1.23.25)**

**Test: *Solving Exponential and Logarithmic Equations.*** You may use one sheet of paper and your TI-84 graphing calculator when you take this test.

**Class Work/Homework:** Read and take notes on pages 312 – 317.

* **CHAPTER 4: *Angles and Their Measures* (Pages 312 – 317)**

|  |
| --- |
| **NEW OBJECTIVES**  |
| * Convert from degrees/minutes/seconds to degrees in decimal form, using your TI-84.
 |
| * Convert from degrees in decimal form to degrees/minutes/seconds, using your TI-84.
 |
| * Define *radian*.
 |
| * Illustrate a radian.
 |
| * Know the approximate value of one radian in degrees, accurate to one decimal place.
 |
| * Convert from radians to degrees.
 |
| * Convert from degrees to radians. Give both an exact answer and an approximate answer.
 |
| * Find the length of an arc subtended by a central angle that is given in degrees in a circle of radius *r*.
 |
| * Find the length of an arc subtended by a central angle that is given in radians in a circle of radius *r*.
 |