**ALGEBRA II – 2022-23 February 27, 2023**

**Today’s Agenda (Day 113)**

1. Homework Check:

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1. Class Activity

🡪 BEGIN: Chapter 7

1. Section 7.1 - Graphing Exponential Functions
2. Section 7.2 – Solving Exponential Equations and Inequalities
3. Section 7.3 – Logarithms and Logarithmic Functions
4. Section 7.4 – Solving Logarithmic Equations and Inequalities

Mid-Chapter 7 Quiz

1. Section 7.5 – Properties of Logarithms
2. Section 7.6 – Common Logarithms
3. Section 7.7 – Base e and Natural Logarithms
4. Section 7.8 – Using Exponential and Logarithmic Functions

HOMEWORK:

* **READ:** Chapter 7 – Exponential and Logarithmic Functions and Relations
* **COMPLETE:** Chapter 7 Vocabulary
* **COMPLETE:** ~~Section 6.7, p. 433 [#24, 26, 30, 34, 36, 38, 42, 44, 46 48, 50, 52, 54, 56, 60]~~
* **STUDY:** Ch 7 Vocabulary Quiz, Mid-Chapter 7 Quiz, Chapter 7 Test

 **CHAPTER 7 VOCABULARY**

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| --- | --- | --- | --- | --- | --- |
| Exponential function | Exponential growth | Asymptote | Growth factor | Exponential decay | Decay factor |
| Exponential equation | Compound interest | Exponential inequality | Logarithm | Logarithmic function | Logarithmic equation |
| Logarithmic inequality | Common logarithm | Change of Base formula | Natural base, e | Natural base exponential function | Natural logarithm |

**ABRIDGED VOCABULARY TEMPLATE**

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| **Term**:  |
| **TEXTBOOK DEFINITION** |
| **SENTENCE/PICTURE/EXAMPLE/FORMULA** |

REMINDERS:

* Chapter 7 Vocabulary – March 1
* QUIZ: Chapter 7 Vocabulary - March 8
* QUIZ: Mid-Chapter 7 🡪 March 10
* **TEST: Chapter 7 🡪 March 17**