

Unit 6: Logarithms and Exponential Functions

Relevant Course Objectives:

CO5 (Exponential Expressions and Logarithms): Derive and explain the structure of logarithms to solve problems involving exponential growth and decay.

Essential Question:

- **How can I simplify logarithmic equations?**
- **How can logarithms help solve real-world exponential problems?**

Week 18 February 1 - 5**Tuesday - Review and 6.2.2**

- Check HW 34
- Log Brainstorm/Review
- New Log Rules (6-106, 108, 109)
- Proof and Notes

Notes: Product and Quotient Properties of Logarithms

HW 35: Ch. 6 #96, 98, 99, 100, 102 (6.2.1)

Wednesday - 6.2.3

- Check HW 35
- Exponential Situations (6-123, 124, 125, 126)

Notes: Curve Fitting with Exponentials

HW 36: Ch. 6 #113, 115, 116, 117, 119 (6.2.2)

Friday - 6.2.4

- Check HW 36
- Murder Mystery (6-137)

HW 37: Ch. 6 #121 (6.2.2) and #127, 128, 129 (6.2.3)

Unit 6 Assessments:

Summative: Unit 5/6 Test - Wednesday February 10

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Week 19 February 8 - 12

Tuesday - Unit 5/6 Closure and Review

• TBD

HW: Study Guide for Unit 5/6 Test

Wednesday - Unit 5/6 Test

HW 38: Ch. 6 #132, 133, 135, 136 (6.2.3)

Friday - Unit 7 Day 1

• TBD

HW 39: TBD

Unit 6 Assessments:

Summative: Unit 5/6 Test - Wednesday February 10