

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**Monday - 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)

Tuesday - 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)

Thursday - 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 - Tuesday February 9

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Week 19 February 8 - 12

Monday - Unit 5/6 Closure and Review

• TBD

HW: Study Guide for Unit 5/6 Test

Tuesday - Unit 5/6 Test

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

Thursday - Unit 7 Day 1

• TBD

HW 39: TBD

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Week 15 December 14 - 18**Monday - 5.2.1**

- Inverse of Exponential Functions (5-55, 56, 57, 58)
- Silent Board Game (5-68)

HW 30: Ch. 5 #61, 62, 64, 66, 67 (5.2.1)

Tuesday - 5.2.2

- Silent Board Game
- Logarithms (5-69, 70, 71, 72)

Notes: Logarithms

HW 31: Ch. 5 #74, 77, 78, 80 (5.2.2)

Thursday - Unit 4 Retake

HW 32: Ch. 5 #84, 85, 90 (5.2.3) and #97, 98 (5.2.4)

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Week 16 December 21 - 23

Monday - Investigating Logarithms

- TBD

Tuesday - Catch up on stuffs?

Unit 6 Assessments:

Summative: Unit 5/6 Test - Tuesday February 9