Relevant Course Objectives:

CO4 (Inverse Functions): Represent and verify inverse functions graphically and algebraically.

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

Essential Question:

• What is a logarithm?

• What does an inverse function look like algebraically and graphically?

Week 13 November 30 - December 4

Monday - Unit 4 Project (due Friday)

Tuesday - 5.1.1

• Intro to Inverse Functions (5-2, 3, 4, 5, 6)

HW: Finish Unit 4 Project (due Friday)

Thursday - Unit 4 Quiz

No HW (catch up on missing assignments)

Unit 5 Assessments:

Relevant Course Objectives:

CO4 (Inverse Functions): Represent and verify inverse functions graphically and algebraically.

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

Essential Question:

- What is a logarithm?
- What does an inverse function look like algebraically and graphically?

Week 14 December 7 - 11

Monday - 5.1.2

- Inverses Graphically (5-16, 17, 18)
- Will the inverse be a function? (5-20, 21, 23)

HW 28: Ch. 5 #8, 10, 11, 13, 15 (5.1.1)

Tuesday - Go Over Unit 4 Quiz and Inequalities Review

Thursday - 5.1.3

• Verifying Inverses Algebraically (5-40, 41, 42, 43, 44, 45)

Notes: Definition of Inverse Equations and Verifying Inverses Equations

HW 29: Ch. 5 #27, 32 (5.1.2) and #48, 50 (5.1.3)

Unit 5 Assessments:

Relevant Course Objectives:

CO4 (Inverse Functions): Represent and verify inverse functions graphically and algebraically.

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

Essential Question:

- What is a logarithm?
- What does an inverse function look like algebraically and graphically?

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)

Unit 5 Assessments:

Relevant Course Objectives:

CO4 (Inverse Functions): Represent and verify inverse functions graphically and algebraically.

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

Essential Question:

What is a logarithm?

• What does an inverse function look like algebraically and graphically?

Week 16 December 21 - 23

Monday - Investigating Logarithms

• TBD

Tuesday - Catch up on stuffs?

Unit 5 Assessments: