

Lesson	Topics/Standard	Objectives: Students will be able to ...	Instructional Activities (modifications / differentiation/ alternative)	Assessment
1	The Nature of Graphs/ F-IF.7a., F-IF.7b, F-BF.3	•review and catch-up on Chapter 3-1 to 3-4 topics.	•discuss and collect Inverse worksheet. •pair practice - page 151 (1 - 9) and review in class.	Study
2	The Nature of Graphs/ F-IF.7a., F-IF.7b, F-BF.3	•be assessed on all concepts in 3-1 to 3-4.	Quiz 3-1 to 3-4	Quiz
3	Graphs of Rational Functions/ F-BF.4	•determine horizontal and vertical asymptotes.	•return and discuss quizzes. •revisit the parent graph of $y = \frac{1}{x}$, discuss and define vertical and horizontal asymptotes. •discuss rules for determining the horizontal asymptotes.	Page 186 (14 - 23 all)
4	Graphs of Rational Functions/ F-BF.4	•graph rational functions.	•discuss homework questions. •introduce slant asymptotes and how to graph the rational functions.	Page 187 (25 - 39 odd)
5	Graphs of Rational Functions/ F-BF.4	•determine vertical and horizontal or slant asymptotes and graph.	•review homework. •pair practice - page 187 (30, 32, 40)	Practice 3-7
6	Direct, Inverse and Joint Variation/ A-CED.4	•solve problems involving direct, inverse and joint variation.	•check homework and address questions. •define direct, inverse and joint variation with examples.	Page 194 (13 - 33 odd)

7	Direct, Inverse and Joint Variation/A-CED.4	<ul style="list-style-type: none"> •solve problems involving direct, inverse and joint variation. 	<ul style="list-style-type: none"> •review homework. •continue to practice with variation problems, pair practice - page 195 (35, 36) 	Practice 3-8
8	The Nature of Graphs/ F-IF.7a., F-IF.7b, F-BF.3 F-BF.4, A-CED.4	<ul style="list-style-type: none"> •review and catch-up on Chapter 3 topics. 	<ul style="list-style-type: none"> •review homework. •pair practice review - page 198 (12 - 33 mult. of 3, 48 - 57 mult. of 3) 	Study
9	The Nature of Graphs/ F-IF.7a., F-IF.7b, F-BF.3 F-BF.4, A-CED.4	<ul style="list-style-type: none"> •all concepts taught in this unit. 	Chapter 3 Test	Test
10	Real Exponents/ N-RN.1, N-RN.2	<ul style="list-style-type: none"> •simplify and evaluate exponential expressions. 	<ul style="list-style-type: none"> •return Chapter Tests and discuss. •refresh student's memory on exponent rules-Student practice 	Pages 700 - 701 (21 - 67 odd)
11	Real Exponents/ N-RN.1, N-RN.2	<ul style="list-style-type: none"> •simplify and evaluate exponential expressions. 	<ul style="list-style-type: none"> •homework review. •continue to practice simplifying expressions and using the rules of exponents. 	Pages 700 - 701 (20 - 66 even)
12	Exponential Functions/ F-IF.7e, F-IF.8b	<ul style="list-style-type: none"> •understand how graphs of exponentials change when the constants change. They will apply their knowledge to sketch the graphs. 	<ul style="list-style-type: none"> •homework review. •Smartboard presentation-students make predictions about different graphs and we check their reasoning. •student practice. 	Page 708 (10 - 21 all)

13	Exponential Functions/ F-LE.1c	·determine exponential growth/decay, compound interest and annuity.	·discuss homework questions. ·Powerpoint lesson on formulas with examples.	Page 709 (24 - 29 all)
14	The Number e / F-LE.1c	·understand how to use e and when the natural number is appropriate.	·address homework questions. ·Smart board presentation on e with student practice.	Page 714 (6 - 12 all)
15	The Number e / F-LE.1c	·understand how to use e and when the natural number is appropriate.	·homework review. ·continue to practice with the number e .	Practice 11-3