

Lesson	Topics/Standards	Objectives: Students will be able to ...	Instructional Activities	Assessment
1	Summer Assignment Review/ A-APR.1-3, A-REI.2-6, N-CN.7-9	•review and catch-up on Algebra skills.	Discuss Review Packet	Worksheet
2	Summer Assignment Review/ A-APR.1-3, A-REI.2-6, N-CN.7-9	•review and catch-up on Algebra skills.	Review Packet (41 - 80)	Study
3	Summer Assignment Review/ A-APR.1-3, A-REI.2-6, N-CN.7-9	•assess students on Algebra skills.	Pre-Calculus Test	Test
4	Symmetry and Coordinate Graphs/F-BF.3	•determine if a relation is symmetric to the origin, the axes, or lines $y = x$ and $y = -x$. •determine if a function is even or odd.	Powerpoint - introduce symmetry, discuss symmetry with respect to origin and lines of symmetry.	Pages 134 - 135 (15 - 27 odd, 28 - 33 all)
5	Symmetry and Coordinate Graphs/F-BF.3	•determine if a relation is symmetric to the origin, the axes, or lines $y = x$ and $y = -x$. •determine if a function is even or odd.	Discuss and check homework. Review tests for symmetry. Pair practice - use graphing calculator	Practice 3-1

6	Families of Graphs/ F-IF.7a., F-IF.7b, F-BF.3	<ul style="list-style-type: none">•identify the parent graphs and describe the transformations.•use the parent graphs to describe and graph the transformations.	Discuss different parent graphs and types of transformations on all parent graphs. Examples - use proper terminology.	Page 143 (13 - 37 odd)
7	Families of Graphs/ F-IF.7a., F-IF.7b, F-BF.3	<ul style="list-style-type: none">•identify the parent graphs and describe the transformations.•use the parent graphs to describe and graph the transformations.	Check and discuss homework. Continue to practice describing and graphing transformations to parent graphs.	Practice 3-2
8	Graphs of Nonlinear Inequalities/F-IF.7a., F-IF.7b, F-BF.3	<ul style="list-style-type: none">•graph nonlinear inequalities.•solve absolute value inequalities and graph the solution on a number line.	Check and discuss homework. Graph inequalities - discuss solid or dotted and shading, test point.	Page 150 (13 - 31 odd, 33 - 38 all)
9	Inverse Functions and Relations/F-IF.7a., F-IF.7b, F-BF.3	<ul style="list-style-type: none">•determine the inverses of relations and functions.	Check homework. Graph functions and their inverses, discuss if the inverse is a function. Find the equation of the inverse by switching x and y and solving for y.	Page 156 (15 - 39 odd)
10	Inverse Functions and Relations/F-IF.7a., F-IF.7b, F-BF.3	<ul style="list-style-type: none">•determine the inverses of relations and functions.	Graph functions and their inverses, discuss if the inverse is a function. Find the equation of the inverse by switching x and y and solving for y.	Practice 3-4

Unit 1 Time line: September 2017

Course: Honors Pre-Calculus

Teachers: Elizabeth Clarke/Wendy McNally

11	The Nature of <i>Graphs</i> / F-IF.7a., F-IF.7b, F-BF.3	•review and catch-up on 3-1 to 3-4 topics.	Check and discuss homework. Pair practice - review for quiz.	Study
12	The Nature of <i>Graphs</i> / F-IF.7a., F-IF.7b, F-BF.3	•assess students on 3-1 to 3-4 topics	Quiz 3-1 to 3-4	Quiz