

Math 1314 Lecture, Homework and Exams Schedule

Week Number	LECTURE AND READING MATERIAL	HOMEWORK
1		
8/28	Syllabus	
8/30	2.1 Graphs of Equations <ul style="list-style-type: none"> ➤ Plotting ordered pairs ➤ Solutions of Equations ➤ Graphs of Linear Equations ➤ Graphing NonLinear Equations 2.2 Functions and Graphs <ul style="list-style-type: none"> ➤ Identifying functions ➤ Finding function values 	<p>You must obtain 100% on HW0 before doing HW1</p> <p>HW1 due on 9/25 by 11:59pm</p>
2		
9/4	2.2 Functions and Graphs <ul style="list-style-type: none"> ➤ Graphs of Functions ➤ The vertical-line test ➤ Applications of functions and their graphs 2.3 Finding Domain and Range <ul style="list-style-type: none"> ➤ Find the domain and range of a function 	<p>HW2 due on 9/25 by 11:59pm</p>
9/6	2.3 Finding Domain and Range (Cont.) 2.4 The Algebra of Functions <ul style="list-style-type: none"> ➤ The sum, difference, product, or quotient of two functions 	<p>HW3 due on 9/25 by 11:59pm</p>
3		
9/11	2.4 The Algebra of Functions <ul style="list-style-type: none"> ➤ Find the domain of the sum, difference, product, or quotient of two functions 2.5 Linear Functions: Graphs and Slope <ul style="list-style-type: none"> ➤ The constant b: the y-intercept ➤ The constant m: slope ➤ Applications 	<p>HW4 and HW5 due on 9/25 by 11:59pm</p>

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9/13	2.6 More on Graphing Linear Equations <ul style="list-style-type: none"> ➤ Graphing using intercepts ➤ Graphing using the slope and the y-intercept ➤ Horizontal lines and vertical lines ➤ Parallel lines and perpendicular lines 	HW6 due on 9/25 by 11:59pm
4		
9/18	2.7 Finding Equations of Lines; Applications <ul style="list-style-type: none"> ➤ Finding an equation of a line when the slope and the y-intercept are given ➤ Finding an equation of a line when the slope and a point are given ➤ Finding an equation of a line when two points are given ➤ Finding an equation of a line parallel or perpendicular to a given line ➤ Applications of linear functions 	HW7 due on 9/25 by 11:59pm
9/20	Test 1 Review	
5		
9/25	Test 1 Covers Chapter 2	All HW for Test 1 is due 11:59pm this day Extra Credit 1 is due at the beginning of class this day
9/27	7.1 Symmetry <ul style="list-style-type: none"> ➤ Symmetry ➤ Even functions and odd functions 7.2 Transformations <ul style="list-style-type: none"> ➤ Transformations of functions ➤ Vertical translations and horizontal translations 	HW8 due on 10/23 by 11:59pm

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6		
10/2	7.2 Transformations <ul style="list-style-type: none"> ➤ Reflections ➤ Vertical and horizontal stretchings and shrinkings 	HW9 due on 10/23 by 11:59pm
10/4	7.4 Quadratic Equations, Functions, Zeros, and Models <ul style="list-style-type: none"> ➤ Quadratic Equations and quadratic functions ➤ Completing the square ➤ Using the quadratic formula ➤ The discriminant ➤ Equations reducible to quadratic ➤ Applications 	HW10 due on 10/23 by 11:59pm
7		
10/9	7.5 Analyzing Graphs of Quadratic Functions <ul style="list-style-type: none"> ➤ Graphing quadratic functions of the type $f(x) = a(x-h)^2+k$ ➤ Graphing quadratic functions of the type $f(x) = ax^2 + bx + c, a \neq 0$ ➤ Applications 	HW11 due on 10/23 by 11:59pm
10/11	8.1 Polynomial Functions and Models <ul style="list-style-type: none"> ➤ The leading-term test ➤ Finding zeros of polynomial functions ➤ Polynomial models 8.2 Graphing Polynomials Functions <ul style="list-style-type: none"> ➤ Graphing polynomial functions 	HW12 due on 10/23 by 11:59pm
8		
10/16	8.2 Graphing Polynomials Functions <ul style="list-style-type: none"> ➤ Graphing polynomial functions ➤ The Intermediate Value Theorem 	HW13 due on 10/23 by 11:59pm

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10/18	Test 2 Review	
9		
10/23	Test 2 Covers Chapter 7 and Sections 8.1 and 8.2	All HW for Test 2 is due 11:59pm this day Extra Credit 2 is due at the beginning of
10/25	8.3 Polynomial Division; The Remainder Theorem and the Factor Theorem <ul style="list-style-type: none"> ➤ Division and Factors ➤ The Remainder Theorem and synthetic division ➤ Finding factors of polynomials 	HW14 due on 11/29 by 11:59pm
10		
10/30	8.4 Theorems about Zeros of Polynomial Functions <ul style="list-style-type: none"> ➤ The Fundamental Theorem of Algebra ➤ Finding polynomials with given zeros ➤ Zeros of polynomial functions with real coefficients ➤ Rational Coefficients ➤ Integer Coefficients and the Rational Zero Theorem 	HW15 due on 11/29 by 11:59pm
11/1	8.5 Rational Functions <ul style="list-style-type: none"> ➤ The domain of a rational function ➤ Asymptotes ➤ Applications 	HW16 due on 11/29 by 11:59pm
11		
11/6	8.6 Polynomial Inequalities and Rational Inequalities <ul style="list-style-type: none"> ➤ Polynomial inequalities ➤ Rational inequalities 	HW17 due on 11/29 by 11:59pm

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11/8	9.1 The Composition of Functions <ul style="list-style-type: none"> ➤ The composition of functions ➤ Decomposing a function as a composition 9.2 Inverse Functions <ul style="list-style-type: none"> ➤ Inverses ➤ Inverses and One-to-One functions 	HW18 due on 11/29 by 11:59pm
12		
11/13 LAST DAY TO WIS 11/12	9.2 Inverse Functions <ul style="list-style-type: none"> ➤ Finding formulas for inverses ➤ Inverse functions and composition ➤ Restricting a domain 9.3 Exponential Functions and Graphs <ul style="list-style-type: none"> ➤ Graphing exponential functions ➤ Applications ➤ The number e ➤ Graphing of exponential functions, base e 	HW19 and HW20 due on 11/29 by 11:59pm
11/15	9.4 Logarithmic Functions and Graphs <ul style="list-style-type: none"> ➤ Logarithmic functions ➤ Finding certain logarithms ➤ Converting between exponential equations and logarithmic equations ➤ Natural logarithms ➤ Changing logarithmic bases ➤ Graphs of logarithmic functions ➤ Applications 	HW21 due on 11/29 by 11:59pm
13		
11/20	9.5 Properties of Logarithmic Functions <ul style="list-style-type: none"> ➤ Logarithms of products ➤ Logarithms of powers ➤ Logarithms of quotients ➤ Applying the properties ➤ Simplifying logarithmic expressions 	HW22 due on 11/29 by 11:59pm

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11/22	Thanksgiving Holiday – No Class	
14		
11/27	Test 3 Review	
11/29	Test 3 Covers Sections 8.3 through 8.6, and 9.1 through 9.5	All HW for Test 3 is due 11:59pm this day Extra Credit 3 is due at the beginning of class this day
15		
12/4	9.6 Solving Exponential Equations and Logarithmic Equations ➤ Solving exponential equations ➤ Solving logarithmic equations	HW23 due on 12/11 by 11:59pm
12/6	Final Exam Review	HW24, 25, 26 due on 12/11 by 11:59pm
16		
<p>The final exam is COMPREHENSIVE and it is on December 11 from 11 to 12:50pm</p> <p>HW23, 24, 25 and 26 due by 11:59pm this day. You will not be tested on the material of HW24, 25, 26 but you still need to do those HW</p> <p>Extra Credit 4 is due at the beginning of class this day. You must complete all problems for HW23, 24, 25 and 26 to receive the extra credit</p>		