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			WEEK 1			
July 6	Monday	L1-3	Real numbers and their properties, absolute value, interval notation, basic rules of algebra // properties of exponents and radicals, simplifying and combining radical rationalizing denominators // Polynomials: basic terminology, operations with polynomials, special products, removing common factor, factoring special polynomial forms, and other factoring methods			
July 7	Tuesday	L4	Simplifying and operations with rational expressions , complex fractions, and difference quotient.			
July 8	Wednesday	L5	Solving equations : solving linear equations in one variable, quadratic equations (quadratic formula and completing the square), polynomial equations of higher degree, equations involving radicals and absolute values, identifying extraneous roots			
July 9	Thursday	L6-8	Solving linear equalities // rectangular coordinates, plotting points in the Cartesian plane, using distance and midpoint formulas, graphs of equations (lines and circle), x- and y-intercepts // linear equations in two variables, slope, vertical and horizontal lines, identifying parallel and perpendicular lines, slope as ratio or rate of change			
July 10	Friday	L9	Introduction to functions, function vs relation, basic terminology, domain and range of a function, function notation and evaluating functions, piecewise functions difference quotients, analyzing graphs of functions, vertical line test, zeros of a function, increasing/decreasing/constant functions, even and odd functions, averag rate of change, recognizing parent functions			
			WEEK 2			
July 13	Monday	L10	Transformations of functions			
July 14	Tuesday	L11	Arithmetic combination of functions, composition of two (and more) functions, domain analysis			
July 15	Wednesday	L12	Inverse functions , finding the inverse of a function algebraically and geometrically one-to-one functions, horizontal line test			
July 16	Thursday	L13	Quadratic functions, the standard form, vertex of a parabola, real-life applications			
July 17	Friday	L14	Polynomial functions of higher degree, using the Leading Coefficient Test to			
		LIT				
July 17	Friday	X	determine the end behavior, finding zeros, sketching graphs of polynomial functions			
-			determine the end behavior, finding zeros, sketching graphs of polynomial functions long and synthetic division, the Remainder Theorem, the Factor Theorem			
-			determine the end behavior, finding zeros, sketching graphs of polynomial functions long and synthetic division, the Remainder Theorem, the Factor Theorem EXAM #1 (L1-12) WEEK 3			
July 17	Friday	X	determine the end behavior, finding zeros, sketching graphs of polynomial functions long and synthetic division, the Remainder Theorem, the Factor Theorem EXAM #1 (L1-12) WEEK 3 Complex numbers, complex conjugates, complex solutions of quadratic equations			
July 17 July 20	Friday Monday	X L15	determine the end behavior, finding zeros, sketching graphs of polynomial functions long and synthetic division, the Remainder Theorem, the Factor Theorem EXAM #1 (L1-12) WEEK 3 Complex numbers, complex conjugates, complex solutions of quadratic equations Zeros of polynomial functions, the Fundamental Theorem of Algebra, the Linear			
July 17 July 20 July 21	Friday Monday Tuesday	L15 L16	determine the end behavior, finding zeros, sketching graphs of polynomial functions long and synthetic division, the Remainder Theorem, the Factor Theorem EXAM #1 (L1-12) WEEK 3 Complex numbers, complex conjugates, complex solutions of quadratic equations Zeros of polynomial functions, the Fundamental Theorem of Algebra, the Linear Factorization Theorem, the Rational Zero Test Rational functions, vertical and horizontal asymptotes, sketching graphs of rational			

			WEEK 4			
July 27	Monday	X	EXAM #2 (L13-19)			
July 27	Monday	L20	Exponential functions, recognizing, evaluating, and graphing exponential functions			
July 28	Tuesday	L21	Logarithmic functions, recognizing, evaluating, and graphing logarithmic functio			
July 29	Wednesday	L22	Properties of logarithms, product, quotient, power properties, change of basis,			
			rewriting, evaluating, expanding, and condensing logarithmic expressions			
July 30	Thursday	L23	Solving exponential and logarithmic equations			
July 31	Friday L24 Exponential and logarithmic models, exponential growth/decay, 0		Exponential and logarithmic models, exponential growth/decay, Gaussian			
			models, logistic growth models, logarithmic models			
			WEEK 5			
August 3	Monday	L25-26	Radian and degree measure // Trigonometric functions & the unit circle			
August 4	Tuesday	L27	Right triangle trigonometry & trigonometric functions of any angle			
August 5	Wednesday	L28-29	Graphs of sine and cosine functions // Graphs of other trigonometric functions			
August 6	Thursday	L30-31	Inverse trigonometric functions // Trigonometric applications and models			
August 7	Friday	L32-33	Using fundamental identities // verifying trigonometric identities			
August 7	Friday	X	EXAM #3 (L20-29)			
			WEEK 6			
August 10	Monday	L34	Solving trigonometric equations			
August 11	Tuesday	L35	Sum and difference formulas			
August 12	Wednesday	L36	Multiple-angle and product-to-sum formulas			
August 13	Thursday	Х	Review			
August 14	Friday	X	FINAL EXAM (L1-36 CUMULATIVE)			

List of lectures

- L1: Real numbers and their properties
- L2: Exponents and radicals
- L3: Polynomials and factoring
- L4: Rational expressions and complex fractions
- L5: Solving equations
- L6: Solving linear inequalities
- L7: Rectangular coordinates and graphs
- L8: Linear equations
- L9: Introduction to functions, analyzing graphs of functions, and a library of parent functions
- L10: Transformations of functions
- L11: Combination of functions & composite functions
- L12: Inverse functions
- L13: Quadratic functions
- L14: Polynomial functions of higher degree
- L15: Complex numbers
- L16: Zeros of polynomial functions
- L17: Rational functions
- L18: Nonlinear inequalities
- L19: Linear and nonlinear systems of equations
- L20: Exponential functions
- L21: Logarithmic functions
- L22: Properties of logarithms
- L23: Solving exponential and logarithmic equations
- L24: Exponential and logarithmic models
- L25: Radian and degree measure
- L26: Trigonometric functions & the Unit Circle
- L27: Right triangle trigonometry & trigonometric functions of any angle
- L28: Graphs of sine and cosine functions
- L29: Graphs of other trigonometric functions
- L30: Inverse trigonometric functions
- L31: Trigonometric applications and models
- L32: Using fundamental identities
- L33: Verifying trigonometric identities
- L34: Solving trigonometric equations
- L35: Sum and difference formulas
- L36: Multiple-angle and product-to-sum formulas

Lecture-Textbook Correspondence

Lecture	Abramson	Larson	Lecture	Abramson	Larson
1	X	A1	19	9.1, 9.3	7.1, 7.2
2	X	A2	20	4.1, 4.2	3.1
3	X	A3	21	4.3, 4.4	3.2
4	X	A4	22	4.5	3.3
5	X	A5	23	4.6	3.4
6	X	A6	24	4.7	3.5
7	X	1.1, 1.2	25	5.1	4.1
8	2.1, 2.2	1.3	26	5.2	4.2
9	1.1, 1.2, 1.3	1.4, 1.5, 1.6	27	5.3, 5.4	4.3, 4.4
10	1.5	1.7	28	6.1	4.5
11	1.4	1.8	29	6.2	4.6
12	1.7	1.9	30	6.3	4.7
13	3.2	2.1	31	5.4, 6.1, 6.2	4.8
14	3.3, 3.4, 3.5	2.2, 2.3	32	7.1	5.1
15	3.1	2.4	33	7.1	5.2
16	3.6	2.5, 2.6	34	7.5	5.3
17	3.7	2.6	35	7.2	5.4
18	9.3	2.7	36	7.3, 7.4	5.5