

Math 135 - Course Outline & Homework Assignments

Fall 2009 - Dr. Nakamura



Chapter	Section	Title	Homework Assignments
1	1.1	Rectangular Coordinates: Graphing Utilities	11-23 odds, 31-43 odds, 49-63 odds, 73,74
	1.2	Graphs of Equations in Two Variables	23,26,27,31,32,34,35,37,38,41,47,50,53,57,60,69,73,74,75,78,81
	1.3	Solving Equations in One Variable Using a Graphing Utility	1-15 EOO (Every Other Odds), 19,20,23,24,25,27,28,29,30,31,34,35,36
	1.4	Lines	9,12,17,21,24,25,35,36,38,39,43,46,49,51,53,55,58,59,62, 65-93 EOO
	1.5	Circles	5, 9-29 odds, 33,36
2	2.1	Functions	15-37 odds, 40,45,46,49,52,53,56,57,59,60, 63-70 all
	2.2	The Graph of a Function	9,11,13,16,17,20,23,27,28
	2.3	Properties of Functions	11-27 odds, 31,34,41,43,44,47,51,55,59, 62
	2.4	Linear Functions and Models	11-29 odds
	2.5	Library of Functions: Piecewise-defined Functions	9-16 all, 17-25 odds, 31,34,35,36,37,38, 41
	2.6	Graphing Techniques: Transformations	7-25 odds, 29,31,41,43,46,48,55,56,57,58,59,60
	2.7	Mathematical Models: Constructing Functions	2,5,7,8,9,12,16,28
Exam 1			Exam #1
3	3.1	Quadratic Functions and Models	13,15,17, 19-33 EOO, 37,41,42,45,46,47,50,51,53,55,57
	3.2	Polynomial Functions and Models	11-21 odds, 23,29,33,35,37,41,42,43, 45-55 odds, 61,67,70,73,76,79

	3.3	Properties of Rational Functions	11-27 odds, 29,33,35,39, 41-51 odds
	3.4	The Graph of a Rational Function; Inverse and Joint Variation	7-43 EOO, 51
	3.5	Polynomial and Rational Inequalities	7,10,13,16,19,22,25,29,31,32,34,35,37, 40,41,45,47,49,50,51,52,53,55
	3.6	The Real Zeros of a Polynomial Function	11-55 EOO, 65,68,69,73,76
	3.7	Complex Zeros: Fundamental Theorem of Algebra	7-29 EOO, 31,33,36,37,39
Exam 2			Exam #2
4	4.1	Composite Functions	9-27 odds, 29-44 all, 47,51,53,57
	4.2	One-to-One functions; Inverse Functions	9-35 EOO, 37-56 odds, 60,63,65,66,68,69,70
	4.3	Exponential Functions	11-27 EOO, 31,33,35,37,39,41,43, 45,46,47,51, 53-66 all
	4.4	Logarithmic Functions	9-41 EOO, 46,47,49,50,52,53,55,56, 67,71,73,75,81,85,89, 91-109 odds
	4.5	Properties of Logarithms	7-27 odds, 32,33,36,37,38,39,40,43,45,48,49, 52,55,56,57,61,64, 65-71 odds
	4.6	Logarithmic and Exponential Equations	5-49 odds
Exam 3			Exam #3
9	9.2	The Parabola	9-35 odds, 39,41,45,46,47,48,49,51,53
	9.3	The Ellipse	17-41 odds, 45,47,48,50,51,53,54,55,57 61,63
	9.4	The Hyperbola	17-37 odds, 39,41,44,45,51,57
Exam 4			Exam #4
10	10.1	Systems of Linear Equations: Substitution and Elimination	17-53 EOO
	10.5	Partial Fraction Decomposition	5-11odds, 14,15,17,18,20,22,23,25, 27,29,30,33,36,37,39,41,43,45,46

	10.6	Systems of Nonlinear Equations	25-53 EOO
	11.1	Sequences	11-55 EOO, 68,70
	11.3	Geometric Sequences; Geometric Series	6,9,13,14,31,34,41,44,45,46,61,62,63,64
13	13.1	Finding Limits Using Tables and Graphs	7-41 EOO
	13.2	Algebra Techniques for Finding Limits	7-37 odds
Exam 5			Exam #5
5	5.1	Angles and Their Measure	11-77 EOO
	5.2	Trigonometric Functions: Unit Circle Approach	19-91 EOO, 94
	5.3	Properties of the Trigonometric Functions	11-57 EOO, 59,62,66,67,69,71,74,76, 78,79,85,86, 107-112 all
	5.4	Graphs of Sine and Cosine Functions	17,18,21-45 EOO, 63,67,69
	5.5	Graphs of the Tangent, Cotangent, Cosecant, and Secant Functions	14,15,16, 21-43 EOO
6	6.1	The Inverse Sine, Cosine, and Tangent Functions	13-23 odds, 37,39,40,41,43,44, 45-55 EOO
	6.2	The Inverse Trigonometric Functions (cont.)	9-55 EOO
	6.3	Trigonometric Identities	31-71 EOO, 76,82,85
	6.4	Sum and Difference Formulas	9-29 EOO, 33,41,45,50,54,55
	6.7	Trig Equations (1)	7-29 EOO
	6.8	Trig Equations (2)	5-45 EOO