

College Algebra
Northeastern University
MTH U110
Fall 2004

Class: Monday, Wednesday, Thursday 1:35-2:40 in 544 NI

Text: *Precalculus Enhanced With Graphing Utilities*, 3rd edition, Sullivan and Sullivan

Instructor: Joshua Sattin, office: 550 NI, phone: x5769, email: sattin.j@neu.edu

Office Hours: Monday 11:00-12:00, Wednesday 12:30-1:30, Thursday 12:30-1:30, or by appointment

Course Description: This course will cover laws of exponents, roots, graphing of equations and inequalities, functions (linear and quadratic), special curves (conic sections), and elementary discrete probability.

Prerequisites: High School algebra and geometry

Course Coordinator: Prof. Bob Lupi, office: 543 NI, phone: x4482, email: bohl@neu.edu

Grades: Quizzes 30% (lowest grade gets dropped)

Midterm Exam 30%

Final Exam 40%

<u>Final Average</u>	<u>Grade for Course</u>
93-100	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-66	D
60-62	D-
<59	F

It is your responsibility to be aware of any changes the instructor may make to the syllabus as they are announced in class. Students are responsible for all information given when they are absent.

If you have a concern about the course or the instructor that is not or cannot be resolved by speaking with the instructor, the next step is to speak with the course coordinator. If the course coordinator does not settle the matter, please contact Professor D. King (the vice chair), 447 LA, x5679, donking@neu.edu.

It is University policy that no grade, including an incomplete, can be changed after one year. Exceptions must be authorized by the Academic Standing Committee.

All students without legitimate conflicts (approved by the instructor) will take the final exam at the scheduled time. Do not make travel plans that conflict with the final exam.

Sections

Suggested Homework Problems

Appendix A

A.1 Algebra Review	page 995 #15-25 odd,45-55 odd,65-97 odd
A.2 Geometry Review	page 1001 #1-25 odd
A.3 Polynomials	page 1013 #1-75 odd
A.4 Rational Expressions	page 1020 #1-27 odd,31-47 odd,79
A.6 Equations, Completing the Square, the Quadratic Formula	page 1036 #1-19 odd,25,27,35,36,40
A.8 Applications	page 1056 #1-9 odd,14,15-21 odd,27,29
A.9 Rational Expressions	page 1064 #1-25 odd,29-35 odd,41-59 odd

Chapter 1 Graphs

1.1 Rectangular Coordinates	page 9 #1,3,5,21-29 odd,49,51,53,65,67
1.2 Intro to Graphing Equations	page 19 #1-27 odd
1.3 Symmetry and Circles	page 30 #1-21 odd,25,27,32,39-55 odd
1.4 Solving Equations	page 43 #13-19 odd,31-37 odd,47-57 odd
1.5 Solving Inequalities	page 56 #1-27 odd, 43-53 odd,59,61,99,103, 105,107
1.6 Lines	page 71 #5-33 odd,47-61 odd,89-95 odd

Chapter 2 Functions and Their Graphs

2.1 Functions	page 96 #1-7 odd,13,15,33,35,37,41,43,47, 49-54,61,83,84
2.2 Linear Functions and Models	page 108 #3,5,7,11-19 odd,20-22,31

Chapter 3 Polynomial and Rational Functions

3.1 Quadratic Functions and Models	page 189 #1-7 odd,25-35 odd,43,45,47,73, 75,82,83
------------------------------------	---

Chapter 9 Analytic Geometry

9.2 The Parabola	page 672 #1-7 odd,15-25 odd,31-39 odd, 49-57 odd, 61,67
9.3 The Ellipse	page 684 #1,3,9,11,13,19-35 odd,45-53 odd, 59,61,71
9.4 The Hyperbola	page 699 #1,3,9-35 odd,39,41,43,57,59

Chapter 12 Counting and Probability

12.1 Sets and Counting	page 907 #1-19 odd,27-38
12.2 Permutations and Combinations	page 916 #1-15 odd,25-45 odd, 51-61 odd
12.3 Probability	page 929 #1-7 odd,8,13-22,27-39 odd,47-55 odd