

**The City College Grove School Of Engineering 2010 Science,
Technology, Engineering and Mathematics (STEM) Program.
Math 190- College Algebra And Trigonometry**

Credits: 1 college credit

Textbook: McKeague, Algebra with Trigonometry for College Students. 5th edition, 2002

To contact me : A) You should email me at: dpichard@sci.ccnycuny.edu

B) after 9p.m. then call me at home 845-638-2583

C) If it is an emergency you may call me at my cell the number is
845-323-7254

Calculator: You will be allowed to use a scientific calculator on your exams.

Teacher Expectations: Students are responsible for all material presented in class. A student should come prepared for class everyday by having a notebook with the notes that I have online printed and in their notebook in an organized manner. Notes should be in PENCIL.

Cell Phones: You are not allowed to have a cell phone on during class. Please turn them off.

OFFICE HOURS: If you have any questions I will answer them after class. If you make an appointment with me we can also meet prior to the class.

Homework: You will be assigned homework after every class. It is worth 2 points if it is in on time. If it is late you get one point. After an exam you are not allowed to show me old homework for that unit. In other words you can only show me homework for a topic that you have not been tested on. After the exam I will not accept old homework. Calculus is essentially a skills course. Like any skill, your ability will be directly proportional to the amount of practice you put in. Homework is the practice portion of the course and is consequently the most important part of the course. It cannot be over emphasized. The old saying, "Education is not a spectator sport" is more than appropriate in this case.

Attendance: The best predictor for student success in any class starts with proper attendance. My teaching experience indicates that there is a high correlation between good grades and good attendance. If you miss a class it is your responsibility to copy the notes from a classmate as soon as possible. I don't give make-up on quizzes or Exams.

Extra Credit: I will have extra credit problems in the notes and enrichment problems in the hw. The extra credit hw is labeled as "Extending the concept" If you get these correct I will add extra points to your grade on a test. Every solution will earn a stamp. Two stamps are worth 1 point. I will add the extra points to an exam at the end of the semester.

GRADING:

40% of your grade is your grade on the final exam. The other 60% will be figured out as follows: There will be four exams and I will drop the lowest, there will be many quizzes and I will drop the lowest 2. Each homework is worth 2 points for a total pretty close to 86 points.

Letter Grade	Quality Points	Grade	Letter grade	Quality Points	Grade
A ⁺	4.00	97-100	B-	2.66	80-83
A	4.00	95-96	C+	2.33	77-79
A ⁻	3.66	90-94	C	2.00	74-76
B ⁺	3.33	87-89	C-	1.66	70-73
B	3.00	84-86	D	1.00	60-69

ADVICE: If you want to earn a high grade in this class, do your homework everyday religiously. Go over the problems that we did in class and then begin your homework. Study the material for an hour everyday. Do not let the information that you do not know accumulate. Always do your homework and PRACTICE, PRACTICE, PRACTICE.

Important Dates:

August 7- Last Session

Website: I have all of my handouts on the website please access the topics prior to me teaching them and print the pages and have them in your notebook.

1. Go to the city college web site "www1.ccny.cuny.edu/"
2. At the bottom click on library
3. Click on "Services"
4. Click on "Reserve Materials"
5. Click on "Electronic Reserves"
6. Click on "Current Semester Reserve Item"
7. Select your instructor, "Pichardo" then hit enter.
8. Click on Math 190 STEM
9. Click "accept"
10. Click on "Notes "
10. The password is in lower case "algebra" press enter
11. Click on closed window and refresh
12. Click on page management and then close it.
13. Click on whatever file you need.

Syllabus: Here is a list of the topics that we will cover along with the homework assignment for the entire semester.

H W #	Topic	Assignment
1	Section R4- Review of Exponents	Page 46-47/1-61 odd
2	Section R5-Polynomials-Addition, Subtraction and Multiplication	Page 58-59/13-21odd,25,27,28-34 all, 41-57odd,63-71odd, 75
3	Section R6-Factoring	Page 67-69/1-63 odd *Extending the concept do 93,95
4	Section R7-Special Factoring	Page 77-79/1-5 odd, 9,15-23odd,35-38all, 43-46all, 47-73odd, *Extending the concept do 101-105 all
5	Section 1.1 Linear Equations in one variable, also solving quadratic equations	Page 110-112/1-29 odd, 33-45 odd, *Extending the concepts 89-93,97,98
6	Section 1.4 Linear Inequalities in one variable	Page 151/ 1-25 odd, 31-45 odd, 47-50all *Extending the concepts Page 153/101-105 all
7	Section 2.1- Rectangular Coordinate System	Page 188-189/3,21-33 odd, 37,38,
8	Section 2.2- The slope of a line, parallel, perpendicular lines	Page 198-199/ 1-5all, 7-19 odd, 21,23, 33,35-42all *Extending the concepts Page 202/69,70
9	Section 2.3- The equation of a line	Page 210-211/ 1-25 odd, 33,34,39
10	Review for exam #1	Page 95-96 /63-74all, 79-84all, 87-102all, 111-129odd Page 269/1,3,4,5,8,10-224all,27-30all
	Exam #1 on topics #1-10	
11	Section 2.4- Linear Inequalities in Two Variables	You are going to need graph paper to do this homework. Page 221/1-13 odd, 17-25all, Page 222/47-52 all
12	Section 2.5and 2.6 - Introduction to functions-Graph of a function, Vertical line test, Notation of functions	Page 231-233/3-7 odd,9-18all,21-23all Page 242-243/1-23 odd,31-38all, 45 a-f, 53,56 *Extending the concept Page 246/71,72 all parts
13	Section 3.1- Systems of Linear Equations In Two Variables	Page 286/9-19 odd, 25,35,41 *Extending the concept Page 289/81,82
14	Section 3.2- System of Linear Equations in Three Variables	Page 294/1-5 odd, 9, 15,16
15	Section 3.3-Introduction to Determinants	Page 303/1-21 odd,23-39 odd please use the method we learned in class
16	Section 3.4-Cramer's Rule	Page 310/1, 3,9,13, 15,17,29
17	Applications	Page 323/3,5,6,7,8, 25,27,28,30
18	Review for Exam #2 on topics 11-17	Page 270/Chapter Test 1-11 Page 339-340/1-41odd
	Exam #2 on Hw #11-18	
19	Section 4.1- basic Properties of	Page 355-356/1,3,5-10all,11-37odd,

	rational Expressions and Reducing To Lowest Terms	45-55odd
20	Section 4.2-Division of Polynomials	Page 369/1-19odd,27-43odd,45-49odd
21	Section 4.3- Multiplication and Division of Rational Expressions	Page 377-378/7-17 odd,27-41odd,45,53, 55
22	Section 4.4-Addition and Subtraction of Rational Expressions	Page 386-387/13-29 odd,35,40,47,49,51,53 *Extending the concept Page 388/79,81,83
23	Section 4.5- Complex Fraction	Page 392-393/9-12all,17,18,20,27,46,48 *Extending the concept Page 394/65-74all
24	Section 4.6-Equations involving Rational Expressions	Page 402-403/1-25 odd,31,39,45,48,51,53 *Extending the concept Page 405/91-94all
25	Section 4.7- Applications	Page 413-414/2,4,5,5,9,11,13,15
26	Section 5.1-Rational Exponents	Page 435-436/2,4,8,11,15,17-58all,59,61, 63-73odd
27	Section 5.3- Simplified forms of radicals	Page 453-454/2,4,6-9all,19,20,21-25all, 27-29all,44,48,
28	Review For Exam #3 on topics #18-25	Page 419/1-21all Page 420(top of the page)/25-33odd Page 420-421(bottom of the page/14-19all Page 488/1-10all,22,24
	Exam #3 on Hw #19-28	
29	Section 5.4-Addition and Subtraction of Radical Expressions	Page 459-460/1,3,7,10,13,16,22,24,30,32,34,36
30	Section 5.5-Multiplication and Division of Radical Expressions	Page 466-467/1-9all,13-23 odd,39,41,43
31	Section 5.6-Radical Equations	Page 475/10,12,14,15,20,22,23,32,34,42
32	Section 6.1-Completing the Squares	Page 502/1-15 odd,21-29 odd, 35-49 odd *Extending the concepts Page 504/89-92 all
33	Section 6.2-The Quadratic Formula	Page 514/5,9,13,17,18,21,23,25,29,31 *Extending the concepts Page 516/75-77all
34	Section 6.5-Graphing Parabolas	Page 546/1-15 odd,31,33,35
35	Section 9.1-The circle	Page 682-683/5,11,15,17,24,28,30,36,37,40,42,54
36	Section 9.3-Non Linear Systems	Page 706/37,40,42,45,48,49,54,56,61,62
37	Section 11.1-Introduction to Identities	Page 802-803/1,2,11,12,21,22
38	Section 12.1-Right Triangle Trigonometry	Page 847-848/14,16,18,20,23,24,29,30,31,36,38,39,45
39	Section 12.2-The Law of Sine	Page 855/1,5,7,10,13,15
40	Section 12.4-The Law of Cosine	Page 866/5,6,9,12,21
41	Review for Exam #4	Page 488/26-35all,43,44,47-54all Page 489/1-8all,15-23all Page 561-562/ 1-13all,16-19all,57,58 Page 562 (Chapter Test at the bottom) do 1-9all
	EXAM #4 on hw #29-40	
42	Review for the Final Exam	Page 563-564 (Cumulative review at the bottom of the

		page)/13-15,17,19,21,22,23,26,27,29-34all,
43	Review for the Final Exam	You will get several Practice Finals Review Sheets
	The Final Exam	