Text: <u>Algebra and Trigonometry with Anal. Geom.</u> by Swokowski/Cole, Classic 10th Ed., Brooks/Cole (2003)

** <u>No Calculators</u> will be allowed on quizzes or exams until after Exam 2.

After Exam 2, a scientific calculator which has square roots, trigonometric and logarithmic functions, and their inverses is required for some of the problems. Additionally, several assigned homework problems throughout the semester require you to use a scientific calculator to approximate an answer. (Recommendation:TI-30 calculators).

Graphing calculators or programmable calculators may never be used on quizzes or exams.

<u>All</u> quiz responses should be written clearly **with sufficient work shown to justify the answer**. Also, you **must provide work and analysis similar to what is shown in the textbook <u>and</u> demonstrated by your instructor whenever the graph of a function or equation is asked for in a problem.**

<u>HOMEWORK:</u> Each homework assignment will be divided into a traditional hand-written component and an online component. The **bolded problems** indicate the problems you must solve by the **traditional hand–written method. Warning:** In addition to attending <u>all</u> lectures, in order to be adequately prepared for the exams you will need to do <u>all</u> the homework problems the entire semester. The answers to all the even numbered problems on each assignment will be available in the Tuesday and Thursday recitation classes.

Course Webpage: www.math.purdue.edu/MA159   NOTE: Online HW links/instructions are on the webpage

Lesson	Hw due	Sections	Assignment
Mon 1	Tu 1/11	1.2	p25: **5,** 6, **7, 8, 10,** 13, **16, 20, 23,** 24, **31,** 32, **49, 51, 53, 55, 58, 95,** 97
Wed 2	Th 1/13	1.2&1.3	p25: **36,** 37, **41, 42, 45, 59, 64,** 65, **67, 68,** 70, **78, 96,** 98, **100**
			p38: **5, 10,** 12, **14,** 18, **23, 33,** 38, 47, **52, 56, 58,** 62
Fri 3	Tu 1/18	1.3&1.4	p39: 68, 72, **92,** 97, **98,** 100, 103
			p47: 1, **3,** 5, **6,** 10, **17,** 20, **22, 43, 44**
Wed 4	Th 1/20	1.4	p48: **11, 14,** 26, **41,** 42, 45, **46, 50,** 52, **56,** 57, 65, **67**
Fri 5	Tu 1/25	1.4&2.1	p48: 47, **48,** 69, **72,** 74, **76,** 78
			p60: **5,** 7, 10, 12, 21, **34, 37, 40, 51, 55, 63, 66**
Mon 6	Tu 1/25	2.1&2.2	p61: **44,** 68, **69,** 70, 71
			p71: 1, **4, 6,** 8, 9, 12, 14, **15,** 17
Wed 7	Th 1/27	2.2	p72: 18, 19, **20,** 21, 23, **24,** 25, 28
Fri 8	Tu 2/1	2.2&2.3	p73: 29, 31, 32, **33,** 34, 36
			p84: 1, 5, **12,** 14, 20, 22, 26, **28, 53,** 54, 55
Mon 9	Tu 2/1	2.3	p84: **33,** 36, **44,** 48, 50, 57, **58,** 60, 61, 70, 72, 74

Tuesday February 1   EXAM 1 – 8:30PM (90 minutes) – Lessons 1 to 9

Wed 10	Th 2/3	2.4	p94: **3,** 8, 12, 15, 18, 19, 22, 30, 35, **36,** 38, 39, **46,** 48, **50,** 52, 53
Fri 11	Tu 2/8	2.6	p110: 1, 3, **7, 13,** 17, **21,** 29, 36, 42, 44, 51, 54, 58, 64, **70, 75, 76,** 78, **82,** 83, 84
Mon 12	Tu 2/8	2.7	p118: 1, 3, 10, 14, 20, **24,** 25, 28, 30, 32, **42,** 44, **45,** 48
Wed 13	Th 2/10	3.1	p130: 5, **8,** 10, **16,** 20, **22,** 24, 25, **26,** 28, 30, 31, **34**
Fri 14	Tu 2/15	3.2	p141: **4, 8, 10, 14, 17, 25, 28, 31, 34,** 36, **40,** 41, 44, 46, **47,** 50, **51,** 60, **62,** 64, **66,** 68
			(For the first 5 problems, also determine all x-axis, y-axis, or origin symmetries that exist.)
Mon 15	Tu 2/15	3.3	p153: **16, 18, 20,** 21, 25, **27,** 30, 32, 36, **38, 42,** 44, 47, 48, 52, **53, 56,** 58, 60, **61**
Wed 16	Th 2/17	3.4	p169: **3,** 4, 5, **6,** 8, 9, 10, **11,** 12, 14, **15,** 16, 20, 24, 25, 26, 28
Fri 17	Tu 2/22	3.4	p169: **29, 30,** 34, **35, 40,** 41, 42, 43, 44, 46, 57, 59, 60, 64, 65, 68a, 70
Mon 18	Tu 2/22	3.5	p181: **2, 4, 6, 8, 16, 20, 39abcdefij, 40abcde,** 41, 43, **58, 60**
Wed 19	Th 2/24	3.5	p182: **39ghkl, 40fghijkl,** 42, 44, **45, 50, 62,** 63, 64, 66, 67
Fri 20	Tu 3/1	3.6	p192: **7,** 10, 12, **13, 14,** 18, **20,** 23, 26, 28, 31, **36**
			(For #13&#14, also determine the domain, range, and increasing/decreasing intervals for *f*.)
Mon 21	Tu 3/1	3.6	p193: 30, 32, 34, **39,** 44, 45, 48, **49,** 50, 53, 54
Wed 22	Th 3/3	3.7	p202: 1, **4, 6,** 10, 14, **18,** 23, 24, 26, 32, 36, **38, 40**

Thursday March 3   EXAM 2 – 8:30PM (90 minutes) – Lessons 10 to 22

Fri 23	Tu 3/8	3.7&3.8	p204: **45,** 46, 49, **50, 55, 56, 58, 60**
			p213: **3, 6, 8, 9, 14,** 19, 20, 22, 24, 39

Lesson		Hw due	Sections	Assignment
Mon	24	Tu 3/8	3.8&3.9	p214: 26, 28, 29, **35, 40,** 42
				p219: 3, **4,** 6, 12, **13,** 14, 16, **17,** 20, 21, 22, 24
Wed	25	Th 3/10	4.1&4.2	p237: **2, 4, 12, 15, 18, 20, 24, 26,** 30, 34, **40, 41ab,** 44
				p245: **2,** 4, 5, **8,** 50a
				(For page 237 #12 also determine the domain, range, and increasing/decreasing intervals for *f*.)
				(For page 237 #18&#24, also determine whether the function is even, odd, or neither.)
Fri	26	Tu 3/22	4.3&4.5	p256: **1,** 2, 4, 12, 14, **45**
				p279: **1, 2,** 3, **6, 12, 14, 16, 18, 22**
Mon	27	Tu 3/22	4.5	p280: **26, 28, 33, 36, 38, 40, 41,** 42, **43, 44,** 51, **52**
				(For page 280 #28&36 also determine the domain, range, increasing/decreasing intervals, and
				***f*(x) > 0 intervals for *f*, additionally determine whether the function is even, odd, or neither.)**
Wed	28	Th 3/24	5.1&5.2	p293: 1, **5,** 12, 16, **18, 20,** 26, 28, **29,** 30, **32, 35,** 37, 38, 42, 44
				p302: **2, 3,** 6, 8, 12, 13, **14,** 16
				(For page 293 #18 also determine the domain, range, and increasing/decreasing intervals for *f*.)
Fri	29	Tu 3/29	5.2&5.3	p303: 18, 20, 22, 23, 24, 26, **28, 30, 32**
				p315: 1ae, 3ae, **9ae, 11ae, 14, 16,** 18, **25,** 24, 26, 28, 30, 32
Mon	30	Tu 3/29	5.3&5.4	p316: **34,** 42, 44, 46, **47, 53,** 60, 62, **63,** 70, 72
				p326: **1,** 4, **6, 7,** 8, 9, **11, 13**
				(For page 316 #34d also determine the domain, range, and increasing/decreasing intervals for *f*.)
Wed	31	Th 3/31	5.4&5.5	p326: 14, 16, 18, 22, **23,** 26, 34, 31, 53, 54, 56, 59, **60**
				p336: **2,** 3, **4,** 6, **10,** 16, 20, 42, 43, **44**
Fri	32	Tu 4/5	5.5&6.1	p337: 12, 49, 50, **53,** 54, 56, 57
				p354: **2, 4,** 5, 8, 9, **10,** 14, **22,** 24, 25, 28, 17, 18
Mon	33	Tu 4/5	6.1&6.2	p354: 30, **31,** 32, **33,** 34, 36, **37ad,** 38, 44, **45,** 46, 48
				p369: 1, 4, **5, 7, 17, 16**
Wed	34	Th 4/7	6.2	p369: 10, **14,** 18, 20, **21,** 22, 24, **27, 29, 31, 33,** 50, 52, 58, 59, 68, 72, **73,** 76, **80**
Fri	35	Tu 4/12	6.2&6.3	p372: 78, **83,** 82, 86
				p388: **17,** 19, **27,** 28, **29,** 30, **31,** 32, **41,** 42, 43, 46, 49, 50, **56, 58, 59, 74**
Mon	36	Tu 4/12	6.4	p397: **1,** 3, **6, 7, 8,** 10, 12, 14, 16, 18, **19,** 21, **23,** 25, 30, **36acf, 38bde,** 41, 43, 44
Wed	37	Th 4/14	7.2&6.5	p454: 1, 2, 3, **4, 5, 6, 7**
				p408: **1cdf, 3egh,** 6, 7, 10, 12, 16, 21, 26, **28**
				(On page 454, problems 1--7, use a graph of the sine, cosine, or tangent function and
				the given constant to find all the solutions in [0, 2π) for each problem.)
Fri	38	Tu 4/19	6.5&6.7	p409: **32, 38,** 41, 42, **43,** 44, 46, **52,** 53, 54
				p425: **2,** 4, **6,** 8, 10, **12,** 14, **16, 18, 20, 25,** 26
				(On page 425, also draw and label a proportionally correct triangle(s) for each problem.)
Mon	39	Tu 4/19	6.7	p426: 32, **33,** 34, **39, 41,** 43, 44, **45,** 46, 47, **48,** 50, 51
				(Also draw and label a proportionally correct triangle(s) for each problem.)

Tuesday April 19   EXAM 3 – 8:30PM (90 minutes) – Lessons 23 to 39

Lesson		Hw due	Sections	Assignment
Wed	40	Th 4/21	7.4	p474: 1, **2,** 3, **4,** 5, **6, 7,** 8, **9,** 10, 48
Fri	41	Tu 4/26	9.1	p570: 2, 3, **10,** 11, 14, 20, 21, **23,** 31, 32, **33, 34,** 35, 36, **40**
				(For the first 7 problems, also graph both equations and find the intersections.)
Mon	42	Tu 4/26	9.2, 9.5&11.5	p579: 1, **9,** 22, **23,** 24, 28, 29, **34,** 40a
				p611: 1, 8
				p788: **1, 2,** 3, **4, 6,** 9, **10, 12, 45, 46, 47, 48**
				(On page 579 and page 611, use the method of substitution, <u>not</u> <u>elimination or matrices</u>.)
Wed	43	Th 4/28	11.5	p788: **14, 16, 18, 28, 30, 31, 37, 38, 49, 52, 56, 58, 62, 64**

There will be three **required evening midterm exams** and there is a two-hour final exam during finals week, Monday, May 2 – Saturday, May 7, 2004. The date and time of the final exam will be announced during the semester. DO NOT PLAN TO LEAVE CAMPUS EARLY. THE SEMESTER DOES NOT END UNTIL SATURDAY, MAY 7 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **<u>WILL NOT</u>** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.