Text: <u>Algebra and Trigonometry with Analytic Geometry</u> by Swokowski/Cole, Classic Tenth Edition, Brooks/Cole (2003).

** No Calculators 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, it should be noted that several assigned homework problems throughout the semester require you to use a scientific calculator to approximate an answer.

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

<u>All</u> quiz responses should be written clearly <u>**with sufficient work shown to justify the answer**</u>. Let me repeat that: <u>**All**</u> quiz responses should be written clearly <u>**with sufficient work shown to justify the answer**</u>. Whenever possible, check your answer.

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.

The course Web page is: www.math.purdue.edu/MA159

<u>Lesson</u>	<u>Hw due</u>	<u>Sections</u>	<u>Assignment</u>
Mon 1	Tu 1/13	1.2	p25: 5, 6, 7, 8, 10, **13**, 16, 20, 23, 24, 31, **32**, 49, 51, 53, 55, 58, 95, **97**, **99**
Wed 2	Th 1/15	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 1/20	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 1/22	1.4	p48: **11**, 14, 26, 41, 42, 45, 46, 50, 52, 56, **57**, **65**, 67
Fri 5	Tu 1/27	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 1/27	2.1&2.2	p61: 44, 68, 69, 70, **71**
			p71: **1**, 4, 6, 8, **9**, 12, 14, 15, **17**
Wed 7	Th 1/29	2.2	p72: 18, **19**, 20, **21**, **23**, 24, **25**, 28
Fri 8	Tu 2/3	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 2/3	2.3	p84: 33, **36**, 44, 48, 50, **57**, 58, 60, **61**, 70, **72**, 74
Wed 10	Th 2/5	2.4	p94: 3, 8, 12, 15, 18, 19, 22, 30, 35, 36, 38, 39, 46, 48, 50, 52, 53

Thursday February 5   EXAM 1 – 7:00PM (90 minutes) – Lessons 1 to 10

Fri 11	Tu 2/10	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 2/10	2.7	p118: **1, 3, 10, 14, 20,** 24, **25, 28, 30, 32, 42,** 44, **45,** 48
Wed 13	Th 2/12	3.1	p130: **5,** 8, **10,** 16, **20,** 22, 24, **25,** 26, **28, 30,** 31, 34
Fri 14	Tu 2/17	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 2/17	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 2/19	3.4	p169: 3, 4, **5,** 6, 8, **9,** 10, 11, **12,** 14, 15, 16, **20,** 24, 25, **26, 28**
Fri 17	Tu 2/24	3.4	p169: 29, 30, **34,** 35, 40, **41,** 42, 43, **44, 46, 57,** 59, 60, 64, **65,** 68a, 70
Mon 18	Tu 2/24	3.5	p181: 2, 4, 6, 8, 16, 20, 39abcdefij, 40abcde, **41,** 43, 58, 60
Wed 19	Th 2/26	3.5	p182: 39ghkl, 40fghijkl, **42,** 44, **45,** 50, 62, 63, 64, 66, 67
Fri 20	Tu 3/2	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 3/2	3.6	p193: 30, 32, 34, 39, 44, **45,** 48, 49, **50, 53, 54**
Wed 22	Th 3/4	3.7	p202: **1,** 4, 6, 10, **14,** 18, 23, **24,** 26, 32, **36,** 38, 40
Fri 23	Tu 3/9	3.7&3.8	p204: **45,** 46, 49, 50, 55, 56, 58, 60
			p213: 3, 6, 8, 9, 14, **19,** 20, 22, **24, 39**
Mon 24	Tu 3/9	3.8&3.9	p214: **26,** 28, 29, 35, 40, 42
			p219: **3,** 4, **6,** 12, 13, 14, 16, 17, 20, **21,** 22, 24

<u>Lesson</u> <u>Hw due</u> <u>Sections</u> <u>Assignment</u>

Wed 25 Th 3/11 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.)

Thursday March 11 EXAM 2 – 7:00PM (90 minutes) – Lessons 11 to 25

Fri 26 Tu 3/23 4.3&4.5 p256: 1, **2,** 4, 12, **14,** 45
p279: 1, 2, **3,** 6, 12, 14, 16, 18, 22
Mon 27 Tu 3/23 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 3/25 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 3/30 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 3/30 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 4/1 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 4/6 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 4/6 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 4/8 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 4/13 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 4/13 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 4/15 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.)**

Thursday April 15 EXAM 3 – 7:00PM (90 minutes) – Lessons 26 to 37

Fri 38 Tu 4/20 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 4/20 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.)
Wed 40 Th 4/22 7.4 p474: **1,** 2, **3,** 4, **5,** 6, 7, **8,** 9, **10, 48**
Fri 41 Tu 4/27 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 4/27 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> elimination or matrices.)
Wed 43 Th 4/29 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 3 – Saturday, May 8, 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 8 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **<u>WILL NOT</u>** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.