MA 159 **Assignment Sheet** **Fall 2005**

Text: Algebra and Trigonometry with Anal. Geom. by Swokowski/Cole, Classic 11th Ed., Brooks/Cole (2006)

** 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, 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.

All 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 and demonstrated by your instructor whenever the graph of a function or equation is asked for in a problem.**

***HOMEWORK:** 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 **all** lectures, in order to be adequately prepared for the exams you will need to do **all** 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 8/23	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 8/25	1.2&1.3	p25: **36,** 37, **41, 42, 45, 59, 64,** 65, **67, 68,** 70, **78, 96,** 98, **100** p39: **5, 10,** 12, **14,** 18, **23, 33,** 38, 47, **52, 56, 58,** 62
Fri 3	Tu 8/30	1.3&1.4	p39: 68, 72, **94,** 99, **100,** 102, 105 p47: 1, **3,** 5, **6,** 10, **17,** 20, **22, 43, 44**
Mon 4	Tu 8/30	1.4	p48: **11, 14,** 26, **41,** 42, 45, **46, 50,** 52, **56,** 57, 65, **67**
Wed 5	Th 9/1	1.4&2.1	p48: 47, **48,** 69, **72,** 74, **76,** 78 p60: **5,** 7, 10, 12, 21, **34, 37, 40, 51, 55, 67, 70**
Fri 6	Tu 9/6	2.1&2.2	p60: **44,** 72, **73,** 74, 75 p70: 1, **4, 8,** 10, 11, 14, 16, **17,** 19
Wed 7	Th 9/8	2.2	p71: 20, 21, **22,** 23, 25, **26,** 27, 30
Fri 8	Tu 9/13	2.2&2.3	p72: 31, 33, 34, **35,** 36, 38 p84: 1, 5, **12,** 14, 20, 22, 26, **28, 57,** 58, 59
Mon 9	Tu 9/13	2.3	p84: **33,** 36, **44,** 52, 54, 61, **62,** 64, 65, 74, 76, 78
Wed 10	Th 9/15	2.4	p93: **3,** 8, 12, 15, 18, 19, 22, 30, 35, **36,** 38, 39, **46,** 48, **50,** 52, 53

Thursday September 15 EXAM 1 – 6:30PM (90 minutes) – Lessons 1 to 10

Fri 11	Tu 9/20	2.6	p109: 1, 3, **7, 13,** 17, **21,** 29, 36, 42, 44, 51, 54, 58, 64, **70, 75, 76,** 78, **82,** 83, 84
Mon 12	Tu 9/20	2.7	p117: 1, 3, 10, 14, 20, **24,** 25, 28, 30, 32, **42,** 44, **45,** 48
Wed 13	Th 9/22	3.1	p128: 5, **8,** 10, **16,** 20, **22,** 24, 25, **26,** 28, 30, 31, **34**
Fri 14	Tu 9/27	3.2	p138: **4, 8, 10, 14, 17, 25, 28, 31, 34,** 36, **40,** 41, 44, 46, **47,** 50, **51,** 60, **66,** 68, **70,** 72 **(For the first 5 problems, also determine all x-axis, y-axis, or origin symmetries that exist.)**
Mon 15	Tu 9/27	3.3	p151: **16, 20, 22,** 23, 27, **29,** 32, 34, 38, **40, 44,** 46, 49, 50, 54, **55, 58,** 60, 62, **63**
Wed 16	Th 9/28	3.4	p167: **3,** 4, 5, **6,** 8, 9, 10, **11,** 12, 14, **19,** 20, 24, 28, 29, 30, 32
Fri 17	Tu 10/4	3.4	p168: **35, 36,** 40, **41, 46,** 49, 50, 51, 52, 54, 65, 67, 68, 72, 73, 76a, 78
Mon 18	Tu 10/4	3.5	p181: **4, 6, 8, 10, 18, 22, 41abcdefij, 42abcde,** 43, 45, **60, 62**
Wed 19	Th 10/6	3.5	p182: **41ghkl, 42fghijkl,** 44, 46, **47, 52, 64,** 65, 68, 69
Fri 20	Th 10/13	3.6	p192: **7,** 10, 12, **13, 14,** 18, **20,** 23, 26, 30, 33, **38** **(For #13&#14, also determine the domain, range, and increasing/decreasing intervals for *f*.)**
Wed 21	Th 10/13	3.6	p193: 32, 34, 36, **41,** 46, 47, 50, **51,** 52, 55, 56
Fri 22	Tu 10/18	3.7	p203: 1, **4, 6,** 10, 14, **18,** 23, 24, 26, 32, 36, **38, 40**
Mon 23	Tu 10/18	3.7&5.1	p204: **45,** 46, 49, **50, 55, 56, 58, 60** p285: **5, 8, 10, 11, 16,** 25, 26, 28, 30, 45
Wed 24	Th 10/20	5.1&4.6	p285: 32, 34, 35, **41, 46,** 48 p270: 3, **4,** 6, 12, **13,** 14, 16, **17,** 20, 21, 22, 24

Lesson Hw due Sections Assignment

Thursday October 20 EXAM 2 – 6:30PM (90 minutes) – Lessons 11 to 24

Fri 25 Tu 10/25 4.1&4.2 p219: **2, 4, 14, 17, 20, 22, 26, 28,** 32, 36, **42, 43ab,** 46
p227: **2,** 4, 5, **8,** 50a
(For page 220 #14 also determine the domain, range, and increasing/decreasing intervals for *f*.)
(For page 220 #20&#26, also determine whether the function is even, odd, or neither.)

Mon 26 Tu 10/25 4.3&4.5 p238: **1,** 2, 4, 12, 14, **49**
p262: **1, 2,** 7, **10, 16, 18, 20, 22, 26**

Wed 27 Th 10/27 4.5 p263: **30, 32, 37, 40, 42, 44, 45,** 46, **47, 48,** 51, **52**
(For page 263 #32&40 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.)

Fri 28 Tu 11/1 5.2&5.3 p296: 1, **5,** 12, 16, **18, 20,** 30, 32, **33,** 34, **36, 39,** 41, 42, 46, 48
p306: **2, 3,** 6, 8, 12, 13, **14,** 16
(For page 296 #18 also determine the domain, range, and increasing/decreasing intervals for *f*.)

Mon 29 Tu 11/1 5.3&5.4 p306: 18, 20, 22, 23, 24, 26, **28, 30, 32**
p318: 1ae, 3ae, **11ae, 13ae, 16, 18,** 20, **27,** 26, 28, 30, 32, 34

Wed 30 Th 11/3 5.4&5.5 p319: **36,** 46, 48, 50, **51, 57,** 64, 66, **67,** 74, 76
p328: **1,** 4, **6, 7,** 8, 9, **11, 13**
(For page 319 #36d also determine the domain, range, and increasing/decreasing intervals for *f*.)

Fri 31 Tu 11/8 5.5&5.6 p328: 14, 16, 18, 22, **23,** 26, 31, 34, 53, 54, 56, 59, **60**
p339: **2,** 3, **4,** 6, **10,** 16, 20, 44, 45, **46**

Mon 32 Tu 11/8 5.6&6.1 p339: 12, 51, 52, **55,** 56, 58, 59
p356: **2, 4,** 5, 8, 9, **10,** 14, **22,** 24, 25, 28, 17, 18

Wed 33 Th 11/10 6.1&6.2 p356: 30, **31,** 32, **33,** 34, 36, **37ad,** 38, 46, **47,** 48, 50
p372: 3, 6, **7, 9, 19, 18**

Fri 34 Tu 11/15 6.2 p372: 12, **16,** 20, 22, **23,** 24, 26, **29, 31, 35, 37,** 54, 56, 62, 63, 72, 76, **77,** 80, **84**

Mon 35 Tu 11/15 6.2&6.3 p375: 82, **87,** 86, 90
p390: **17,** 19, **27,** 28, **29,** 30, **31,** 32, **41,** 42, 43, 46, 49, 50, **56, 58, 59, 74**

Tuesday November 15 EXAM 3 – 6:30PM (90 minutes) – Lessons 25 to 35

Wed 36 Th 11/17 6.4 p399: **1,** 3, **6,** 7, **8,** 10, 12, 14, 16, 18, **19,** 21, **23,** 25, 30, **36acf, 38bde,** 41, 43, 44

Fri 37 Tu 11/22 7.2&6.5 p455: 1, 2, 3, **4, 5, 6, 7**
p410: **1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28**
(On page 455, problems 1--7, use a graph of the sine, cosine, or tangent function and the given constant to find all the solutions in $[0, 2\pi)$ for each problem.)

Mon 38 Tu 11/22 6.5&6.7 p410: **32, 38,** 41, 42, **43,** 44, 46, **52,** 53, 54
p427: **2,** 4, **6,** 8, 10, **12,** 14, **16, 18, 20, 25,** 26
(On page 427, also draw and label a proportionally correct triangle(s) for each problem.)

Mon 39 Tu 11/29 6.7 p428: 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 12/1 7.4 p473: 1, **2,** 3, **4,** 5, **6, 7,** 8, **9,** 10, 50

Fri 41 Tu 12/6 9.1 p570: 2, 3, **10,** 11, 14, 20, 21, **23,** 32, **33, 34,** 36, 39, 40, **44**
(For the first 7 problems, also graph both equations and find the intersections.)

Mon 42 Tu 12/6 9.2, 9.5&11.5 p579: 1, **9,** 22, **23,** 24, 28, 29, **34,** 40a
p612: 1, 8
p784: **1, 2,** 3, **4, 6,** 9, **10, 12, 45, 46, 47, 48**
(On page 579 and page 612, use the method of substitution, <u>not</u> <u>elimination or matrices</u>.)

Wed 43 Th 12/8 11.5 p784: **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, December 12 – Saturday, December 17, 2005. 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, DECEMEBER 17 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **<u>WILL NOT</u>** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.