MA 159   **Assignment Sheet**   **Spring 2006**

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

** <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. <u>(Recommended: TI-30 calculator)</u>.
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 <u>an online component</u> **AND** <u>a traditional hand-written component.</u> The **bolded problems** indicate the problems you must solve by the **traditional hand–written method,** problems similar to the unbolded problems will make up the online homework assignments.

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

<u>Lesson</u>	<u>Hw due</u>	<u>Sections</u>	<u>Assignment</u>	
Mon 1	Tu 1/10	1.2	p25: **5,** 6, **7, 8, 10,** 13, **16, 20, 23,** 24, **31,** 32, **49, 51, 53, 55, 58, 95,** 97	Q1 – Th 1/12 Lessons 1 - 2
Wed 2	Th 1/12	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 1/17	1.3&1.4	p39: 68, 72, **94,** 99, **100,** 102, 105 p47: 1, **3,** 5, **6,** 10, **17,** 20, **22, 43, 44 , 50,** 52	Q2 – Tu 1/17 Lessons 1 - 3
Wed 4	Th 1/19	1.4	p48: **11, 14,** 26, **41,** 42, 45, **46, 56,** 57, 65, **67 ,** 69	
Fri 5	Tu 1/24	1.4&2.1	p48: 47, **48, 72,** 74, **76,** 78 p60: **5,** 7, 10, 12, 21, **34, 37, 40, 51, 55, 67, 70,** 74, 75	Q3 – Th 1/19 Lessons 2 - 4
Mon 6	Tu 1/24	2.1&2.2	p60: **44,** 72, 73 p70: 1, **4, 8, 10,** 11, 14, 16, **17,** 19, 27	Q4 – Tu 1/24 Lessons 4 - 6
Wed 7	Th 1/26	2.2	p71: 20, 21, **22,** 23, 25, **26,** 30, 31	
Fri 8	Tu 1/31	2.2&2.3	p72: 33, 34, **35,** 36, 38 p84: 1, 5, **12,** 14, 20, 22, 26, **28, 33,** 36, 52, **57,** 58, 59	Q5 – Th 1/26 Lessons 5 - 7
Mon 9	Tu 1/31	2.3&2.4	p84: **44,** 54, 61, **62,** 64, 65, 74, 76, 78 p93: 15, 18, **36,** 38, 39	
Wed 10	Th 2/2	2.4&2.6	p93: **3,** 8, 12, 19, 22, 30, 35, **46,** 48, **50,** 52, 53 p109: 1, 3, **7, 13,** 17, **21**	Q6 – Tu 1/31 Lessons 7 - 9

***Thursday February 2*   EXAM 1 – 7:00PM (90 minutes) – Lessons 1 to 10**

Fri 11	Tu 2/7	2.6&2.7	p109: 29, 36, 42, 44, 51, 54, 58, 64, **70, 75, 76,** 78, **82,** 83, 84 p117: 1, 3, 5	Q7 – Tu 2/7 Lessons 10 - 12
Mon 12	Tu 2/7	2.7&3.1	p117: 10, 14, 20, **24,** 25, 28, 30, 32, **42,** 44, **45,** 48 p128: 5, **8,** 10	Q8 – Th 2/9 Lessons 11 - 13
Wed 13	Th 2/9	3.1&3.2	p128: **16,** 20, **22,** 24, 25, **26,** 28, 30, 31, **34** p138: **4, 8, 10, 14, 17**	Q9 – Tu 2/14 Lessons 13 - 15
			(For the problems on p138, also determine all x-axis, y-axis, or origin symmetries that exist.)	
Fri 14	Tu 2/14	3.2&3.3	p138: **25, 28, 31, 34,** 36, **40,** 41, 44, 46, **47,** 50, **51,** 60, **66,** 68, **70,** 72 p151: **16, 20, 22**	Q10 – Th 2/16 Lessons 14 - 16
Mon 15	Tu 2/14	3.3&3.4	p151: 23, 27, **29,** 32, 34, 38, **40, 44,** 46, 49, 50, 54, **55, 58,** 60, 62, **63** p167: **3,** 4, 5, **6,** 8	Q11 – Tu 2/21 Lessons 16 - 18
Wed 16	Th 2/16	3.4	p167: 9, 10, **11,** 12, 14, **19,** 20, 24, 28, 29, 30, 32, 40, **41, 46**	
Fri 17	Tu 2/21	3.4&3.5	p168: **35, 36,** 49, 50, 51, 52, 54, 65, 67, 68, 72, 73, 76a, 78 p181: **4, 6, 8, 10, 18, 41cd**	Q12 – Th 2/23 Lessons 17 - 19
Mon 18	Tu 2/21	3.5	p181: **22, 41abefhijk, 42abcde,** 43, 44, **60, 62**	
Wed 19	Th 2/23	3.5	p182: **41 gl, 42fghijkl,** 45, 46, **47, 52, 64,** 65, 68, 69	Q13 – Tu 2/28 Lessons 19 - 21
Fri 20	Tu 2/28	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*.)	
Mon 21	Tu 2/28	3.6	p193: 32, 34, 36, **41,** 46, 47, 50, **51,** 52, 55, 56	Q14 – Th 3/2 Lessons 20 - 22
Wed 22	Th 3/2	3.7	p203: 1, **4, 6,** 10, 14, **18,** 23, 24, 26, 32, 36, **38, 40**	

Lesson	Hw due	Sections	Assignment

Fri   23 Tu 3/7   3.7&4.1   p204: **45**, 46, 49, **50, 55, 56, 58, 60**

                                  p219: **2, 4, 14, 17, 20, 22**, 26

(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 24 Tu 3/7   4.1,4.2,4.3,&4.5   p220: **28**, 32, 36, **42, 43ab**, 46   p227: **2**, 4, 5, **8**, 50a

                                  p238: **1**, 2, 4, 12, 14, **49**   p262: **1, 2,** 7

Wed 25 Th 3/9   4.5   p263: **10, 16, 18, 20, 22, 26, 30, 37, 42, 45**, 46

Thursday March 9   **EXAM 2 – 7:00PM (90 minutes) – Lessons 10 to 25**

Fri   26 Tu 3/21   4.5&4.6   p263: **32, 40, 44, 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.)**

                                  p270: 3, **4**, 6, 12, **13**, 14

Mon 27 Tu 3/21   4.6&5.1   p270: 16, **17**, 20, 21, 22, 24

                                  p285: **5, 8, 10, 11, 16**, 25, 26, 28, 30, 32, 34, 35, **41**, 45, **46**, 48

Wed 28 Th 3/23   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*.)

Fri   29 Tu 3/28   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

Mon 30 Tu 3/28   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*.)

Wed 31 Th 3/30   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**

Fri   32 Tu 4/4   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

Mon 33 Tu 4/4   6.1&6.2   p356: 30, **31**, 32, **33**, 34, 36, **37ad**, 38, 46, **47**, 48, 50

                                  p372: 3, 6, **7, 9, 19, 18**

Wed 34 Th 4/6   6.2   p372: 12, **16**, 20, 22, **23**, 24, 26, **29, 31, 35, 37**, 54, 56, 62, 63, 72, 76, **77**, 80, **84**

Fri   35 Tu 4/11   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**

Mon 36 Tu 4/11   6.4   p399: **1**, 3, **6**, 7, **8**, 10, 12, 14, 16, 18, **19**, 21, **23**, 25, 30, **36acf, 38bde**, 41, 43, 44

Wed 37 Th 4/13   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, 2π) for each problem.)

Fri   38 Tu 4/18   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 4/18   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 4/20   7.4   p473: 1, **2**, 3, **4**, 5, **6, 7**, 8, **9**, 10, 50

Thursday April 20   **EXAM 3 – 7:00PM (90 minutes) – Lessons 25 to 40**

Fri   41 Tu 4/25   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 4/25   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> elimination or matrices.)

Wed 43 Th 4/27   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, May 1 – Saturday, May 6, 2006. The date and time of the final exam will be announced during the semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, MAY 6 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **<u>WILL NOT</u>** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.