<u>**MA 159**</u>   <u>**Assignment Sheet**</u>   <u>**Fall 2006**</u>

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 <u>**with sufficient work shown to justify the answer**</u>. **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 8/22**	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 8/24**	1.2&1.3	p25: **36,** 37, **41, 42, 45, 59, 64,** 65, **67, 68,** 70, **78, 96,** 98, **100**	Q1 – Th 8/24
			p39: **5, 10,** 12, **14,** 18, **23, 33,** 38, 47, **52, 56, 58,** 62	Lessons 1 - 2
Fri 3	**Tu 8/29**	1.3&1.4	p39: 68, 72, **94,** 99, **100,** 102, 105	Q2 – Tu 8/29
			p47: 1, **3,** 5, **6,** 10, **17,** 20, **22, 43, 44 , 50,** 52	Lessons 2 - 4
Mon 4	**Tu 8/29**	1.4	p48: **11, 14,** 26, **41,** 42, 45, **46, 56,** 57, 65, **67 ,** 69	
Wed 5	**Th 8/31**	1.4&2.1	p48: 47, **48, 72,** 74, **76,** 78	Q3 – Th 8/31
			p60: **5,** 7, 10, 12, 21, **34, 37, 40, 51, 55, 67, 70,** 74, 75	Lessons 3 - 5
Fri 6	**Tu 9/5**	2.1&2.2	p60: **44,** 72, 73	
			p70: 1, **4, 8, 10,** 11, 14, 16, **17,** 19, 27	Q4 – Tu 9/5
Wed 7	**Th 9/7**	2.2	p71: 20, 21, **22,** 23, 25, **26,** 30, 31	Lessons 4 - 6
Fri 8	**Tu 9/12**	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 9/7
Mon 9	**Tu 9/12**	2.3&2.4	p84: **44,** 54, 61, **62,** 64, 65, 74, 76, 78	Lessons 5 - 7
			p93: 15, 18, **36,** 38, 39	

Tuesday September 12   **EXAM 1 – 8:30PM (90 minutes) – Lessons 1 to 9**

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

Thursday October 12   **EXAM 2 – 8:30PM (90 minutes) – Lessons 9 to 21**

Lesson	**Hw due**	Sections	Assignment

Fri 22 **Tu 10/17** 3.7   p203: 1, **4,** 6, 10, 14, **18,** 23, 24, 26, 32, 36, **38, 40**

Mon 23 **Tu 10/17** 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.)

Wed 24 **Th 10/19** 4.1,4.2,4.3,&4.5   p220: **28,** 32, 36, 42, 43ab, 46   p227: 2, **4,** 5, **8,** 50a

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

Fri 25 **Tu 10/24** 4.5   p263: **10, 16, 18, 20, 22, 26, 30, 37, 42, 45,** 46

Mon 26 **Tu 10/24** 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

Wed 27 **Th 10/26** 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

Fri 28 **Tu 10/31** 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 10/31** 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 11/2**   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 11/7**   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 11/7**   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 11/9**   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 11/14** 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 11/14** 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**

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

Thursday November 16   **EXAM 3 – 8:30PM (90 minutes) – Lessons 21 to 36**

Fri 37 **Tu 11/21** 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.)

Mon 38 **Tu 11/21** 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 11/28** 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 11/30** 7.4   p473: 1, **2,** 3, **4,** 5, **6, 7,** 8, **9,** 10, 50

Fri 41 **Tu 12/5**   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 12/5**   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 12/7**   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 also a two-hour final exam during finals week, Monday, December 11 – Saturday, December 16, 2006. The date and time of the final exam will be announced during the semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, DECEMBER 16 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **<u>WILL NOT</u>** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.