MA 159   **Assignment Sheet**   **Spring 2008**

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 1-line scientific calculator which has trigonometric & logarithmic functions, and their inverses is required for many of the quiz and exam problems. ALSO: Several homework problems throughout the semester require a calculator to approximate an answer. (Recommended: 1-line TI-30 calculator).

Graphing calculators and any calculators with more then 1-line 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 an online component **AND** a traditional hand-written component. 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

Lesson	Hw due	Sections	HW Assignment Problems	
Mon 1	**Tu 1/8**	1.2	p25: **5,** 6, 7, 8, **10,** 13, 16, **20,** 23, 24, **31,** 32, 49, 51, 53, 55, **58, 95,** 96, 97	Q1 – Th 1/10 Lessons 1 - 2
Wed 2	**Th 1/10**	1.2&1.3	p25: 36, 37, 41, 42, 45, 59, **64,** 65, 67, **68,** 70, **78,** 98, 100 p39: 5, 10, 12, 14, 18, 23, 33, 38, 47, 52, **56,** 58, 62	
Fri 3	**Tu 1/15**	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 1/15 Lessons 2 - 4
Mon 4	**Tu 1/15**	1.4	p48: **11,** 14, 26, 41, 42, 45, 46, 56, 57, 65, 67, 69	
Wed 5	**Th 1/17**	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 1/17 Lessons 3 - 5
Fri 6	**Tu 1/22**	2.1&2.2	p60: 44, 72, 73 p70: 1, 4, 8, 10, 11, 14, 16, 17, 19, 27	Q4 – Tu 1/22 Lessons 4 - 6
Wed 7	**Th 1/24**	2.2	p71: 20, 21, 22, 23, 25, 26, 30, 31	
Fri 8	**Tu 1/29**	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 1/24 Lessons 5 - 7
Mon 9	**Tu 1/29**	2.3&2.4	p84: **44,** 54, 61, 62, 64, 65, 74, 76, 78 p93: 15, 18, **36,** 38, 39	
Wed 10	**Th 1/31**	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 1/29 Lessons 7 - 9

Thursday, January 31   **EXAM 1 – 8:30PM (90 minutes) – Lessons 1 to 10**

Lesson	Hw due	Sections	HW Assignment Problems	
Fri 11	**Tu 2/5**	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 2/5 Lessons 10 - 12
Mon 12	**Tu 2/5**	2.7&3.1	p117: 10, 14, 20, **24,** 25, 28, 30, 32, **42,** 44, 45, 48 p128: 5, 8, 10	Q8 – Th 2/7 Lessons 11 - 13
Wed 13	**Th 2/7**	3.1&3.2	p128: 16, 20, **22,** 24, 25, **26,** 28, 30, 31, **34** p138: **4, 8, 10, 14, 17**	

(For the problems on p138, also determine all x-axis, y-axis, or origin symmetries that exist.)

Lesson	Hw due	Sections	HW Assignment Problems	
Fri 14	**Tu 2/12**	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 2/12 Lessons 13 - 15
Mon 15	**Tu 2/12**	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	Q10 – Th 2/14 Lessons 14 - 16
Wed 16	**Th 2/14**	3.4	p167: 9, 10, 11, 12, 14, 19, 20, 24, 28, 29, 30, 32**,** 40, **41, 46**	
Fri 17	**Tu 2/19**	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**	Q11 – Tu 2/19 Lessons 16 - 18
Mon 18	**Tu 2/19**	3.5	p181: **22, 41abefhijk, 42abcde,** 43, 44, **60, 62**	Q12 – Th 2/21 Lessons 17 - 19
Wed 19	**Th 2/21**	3.5	p182: **41gl, 42fghijkl,** 45, 46, **47, 52, 64,** 65, 68, 69	
Fri 20	**Tu 2/26**	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_.)

Lesson	Hw due	Sections	HW Assignment Problems	
Wed 21	**Tu 2/26**	3.6	p193: 32, 34, 36, 41, 46, 47, 50, 51, 52, 55, 56	Q13 – Tu 2/26 Lessons 19 - 21
Fri 22	**Th 2/28**	3.7	p203: 1, 4, 6, 10, 14, **18,** 23, 24, 26, 32, 36, **38,** 40	

Thursday, February 28   **EXAM 2 – 8:30PM (90 minutes) – Lessons 10 to 22**

Lesson **Hw due** Sections HW Assignment Problems

Mon 23 **Tu 3/4** 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 **Tu 3/4** 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

| Q14 – Tu 3/4 |
| Lessons 22 - 24 |

Fri 25 **Th 3/6** 4.5 p263: **10, 16, 18, 20, 22, 26, 30, 37, 42,** 45, 46

| Q15 – Th 3/6 |
| Lessons 23 - 25 |

Mon 26 **Tu 3/18** 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**

| Q16 – Tu 3/18 |
| Lessons 25 - 27 |

Wed 27 **Tu 3/18** 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 **Th 3/20** 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

| Q17 – Th 3/20 |
| Lessons 26 - 28 |

(For page 296 #18 also determine the domain, range, and increasing/decreasing intervals for *f*.)

Mon 29 **Tu 3/25** 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 **Tu 3/25** 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**

| Q18 – Tu 3/25 |
| Lessons 28 - 30 |

(For page 319 #36d also determine the domain, range, and increasing/decreasing intervals for *f*.)

Fri 31 **Th 3/27** 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**

| Q19 – Th 3/27 |
| Lessons 29 - 31 |

Mon 32 **Tu 4/1** 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 **Tu 4/1** 6.1&6.2 p356: 30, 31, 32, **33,** 34, 36, 37ad, 38, 46, **47,** 48, 50
p372: 3, 6, **7,** 9, 19, 18

| Q20 – Tu 4/1 |
| Lessons 31 - 33 |

Fri 34 **Th 4/3** 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 4/8** 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

| Q21 – Th 4/3 |
| Lessons 32 - 34 |

Wed 36 **Tu 4/8** 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 **Th 4/10** 7.2&6.5 p455: 1, 2, 3, **4, 5, 6, 7**
p410: **1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28**

| Q22 – Tu 4/8 |
| Lessons 34 - 36 |

(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.)

Thursday, April 10 **EXAM 3 – 8:30PM (90 minutes) – Lessons 22 to 37**

Mon 38 **Tu 4/15** 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

| Q23 – Tu 4/15 |
| Lessons 37 - 39 |

(On page 427, also draw and label a proportionally correct triangle(s) for each problem.)

Mon 39 **Tu 4/15** 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 4/17** 7.4 p473: 1, 2, 3, 4, 5, 6, 7, 8, 9, **10,** 50

| Q24 – Th 4/17 |
| Lessons 38 - 40 |

Fri 41 **Tu 4/22** 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 4/22** 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, not elimination or matrices.)

Wed 43 **Th 4/24** 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, April 28 – Saturday, May 3, 2008. The date and time of the final exam will be announced during the semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, MAY 3 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **WILL NOT** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.