MA 15900 **Assignment Sheet** **Fall 2010**

Text: Algebra and Trigonometry with Anal. Geom. by Swokowski/Cole, Classic 12th Ed., Brooks/Cole (2010)

**** 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-30XA calculator).

Graphing calculators and any calculators with more than 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/MA15900 NOTE: Online HW links/instructions are on the webpage

Lesson	**Hw due**	Sections	HW Assignment Problems	
Mon 1	**Tu 8/24**	1.2	p25: **5,** 6, 7, 8, **10,** 13, 16**, 20,** 23, 24, **31,** 32, 49, 51, 53, 55, **58, 95,** 96, 97	
Wed 2	**Th 8/26**	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	Q1 – Tu 8/24 Lesson 1
Fri 3	**Tu 8/31**	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 – Th 8/26 Lessons 1 - 2
Mon 4	**Tu 8/31**	1.4	p48: **11,** 14, 26, 41, 42, 45, 46, 56, 57, 65, 67, 69	
Wed 5	**Th 9/2**	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 – Tu 8/31 Lessons 2 - 4
Fri 6	**Tu 9/7**	2.1&2.2	p60: 44, 72, 73 p70: 1, 4, 8, 10, 11, 14, 16, 17, 19, 27	Q4 – Th 9/2 Lessons 3 - 5
Wed 7	**Th 9/9**	2.2	p71: 20, 21, 22, 23, 25, 26, 30, 31	
Fri 8	**Tu 9/14**	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 – Tu 9/7 Lessons 4 - 6
Mon 9	**Tu 9/14**	2.3&2.4	p84: **44**, 54, 61, 62, 64, 65, 74, 76, 78 p93: 15, 18, **36,** 38, 39	Q6 – Th 9/9 Lessons 5 - 7

Tuesday, September 14 EXAM 1 – 8:00PM (90 minutes) – Lessons 1 to 9

Wed 10	**Th 9/16**	2.4&2.6	p93: 3, 8, 12, 19, 22, 30, 35, 46, 48, 52, 54, 55 p109: 1, 3, 7, 13, 17, 21	Q7 – Th 9/16 Lessons 8 - 10
Fri 11	**Tu 9/21**	2.6&2.7	p109: 29, 36, 42, 44, 51, 54, 58, 64, 70, 75, 76, 78, 82, 83, 84 p117: 1, 3, 5	Q8 – Tu 9/21 Lessons 10 - 12
Mon 12	**Tu 9/21**	2.7&3.1	p117: 10, 14, 20, **24,** 25, 28, 30, 32, **42,** 44, 45, 48 p128: 5, 8, 10	Q9 – Th 9/23 Lessons 11 - 13
Wed 13	**Th 9/23**	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.)	
Fri 14	**Tu 9/28**	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 – Tu 9/28 Lessons 13 - 15
Mon 15	**Tu 9/28**	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 – Th 9/30 Lessons 14 - 16
Wed 16	**Th 9/30**	3.4	p167: 9, 10, 11, 12, 14, 19, 20, 24, 28, 29, 30, 32**,** 40, **41, 46**	
Fri 17	**Tu 10/5**	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 – Tu 10/5 Lessons 16 - 18
Mon 18	**Tu 10/5**	3.5	p181: **22, 41abefhijk, 42abcde,** 43, 44, **60, 62**	
Wed 19	**Th 10/7**	3.5	p182: **41gl, 42fghijkl,** 45, 46, **47, 52, 64,** 65, 68, 69	Q13 – Th 10/7 Lessons 17 - 19
Fri 20	**Th 10/14**	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 10/14**	3.6	p193: 32, 34, 36, 41, 46, 47, 50, 51, 52, 55, 56	
Fri 22	**Tu 10/19**	3.7	p203: 1, 4, 6, 10, 14, **18,** 23, 24, 26, 32, 36, **38,** 40	Q14 – Th 10/14 Lessons 19 - 21

Lesson	**Hw due**	Sections	HW Assignment Problems	
Mon 23	**Tu 10/19**	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.)**	

Tuesday, October 19 EXAM 2 – 8:00PM (90 minutes) – Lessons 9 to 23

Wed 24	**Th 10/21**	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**	Q15 – Th 10/21 Lessons 22 - 24
Fri 25	**Tu 10/26**	4.5	p263: **10, 16, 18, 20, 22, 26, 30, 37, 42,** 45, 46	Q16 – Tu 10/26 Lessons 24 - 26
Mon 26	**Tu 10/26**	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.)**	
Wed 27	**Th 10/28**	4.6&5.1	p270: 3, 4, 6, 12, **13, 14** p270: **16, 17,** 20, 21, 22, 24 p285: **5, 8, 10, 11, 16,** 25, 26, 28, 30, 32, 34, 35, 41, 45, 46, 48	Q17 – Th 10/28 Lessons 25 - 27
Fri 28	**Tu 11/2**	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*.)**	Q18 – Tu 11/2 Lessons 27 - 29
Mon 29	**Tu 11/2**	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 11/4**	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*.)**	Q19 – Th 11/4 Lessons 28 - 30
Fri 31	**Tu 11/9**	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**	Q20 – Tu 11/9 Lessons 30 - 32
Mon 32	**Tu 11/9**	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 11/11**	6.1&6.2	p356: 30, 31, 32, **33,** 34, 36, 37ad, 38, 46, **47,** 48, 50 p372: 3, 6, **7,** 9, 19, 18	Q21 – Th 11/11 Lessons 31 - 33
Fri 34	**Tu 11/16**	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 11/16**	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 16 EXAM 3 – 8:00PM (90 minutes) – Lessons 23 to 35

Wed 36	**Th 11/18**	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 11/23**	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.)**	Q22 – Th 11/18 Lessons 34 - 36
Mon 38	**Tu 11/23**	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.)**	Q23 – Tu 11/23 Lessons 36 - 38
Mon 39	**Tu 11/30**	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 12/2**	7.4	p473: 1, 2, 3, 4, 5, 6, 7, 8, 9, **10,** 50	Q24 – Tu 11/30 Lessons 37 - 39
Fri 41	**Tu 12/7**	9.1	p570: 2, 3, 10, 11, 14, 20, 21, 25, 34, **35, 36,** 38, 41, 42, 46 **(For the first 7 problems, also graph both equations and find the intersections.)**	
Mon 42	**Tu 12/7**	9.2, 9.5&11.5	p579: 1, 9, 24, 25, 26, 30, 31, 36, 42a 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>.)**	Q25 – Th 12/2 Lessons 38 - 40
Wed 43	**Th 12/9**	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 13 – Saturday, December 18, 2009. The date and time of the final exam will be announced during the semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, DECEMBER 18 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **<u>WILL NOT</u>** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.