MA 15900 **Assignment Sheet** **Spring 2011**

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:** All homework will be completed online, however, you will still need to develop disciplined habits of showing work and learning to communicate clear step-by-step solutions, which will be consistently assessed on the quizzes. The **bolded problems** listed below are problems where graphing an equation or function on paper without a graphing calculator is the primary goal, a very important skill for calculus courses.

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 1/11**	1.2	p25: 3, 4, 5, 6,7, 8, 10, 13, 16, 20, 23, 24, 27, 31, 32, 47, 49, 51, 53, 54, 55, 57, 58, 95, 96, 97	
Wed 2	**Th 1/13**	1.2&1.3	p25: 36, 37, 41, 42, 45, 59, 62, 64, 65, 67, 68, 70, 73, 78, 98, 100 p39: 6, 10, 11, 12, 14, 16, 18, 20, 23, 29, 33, 38, 40, 50, 52, 56, 58, 64	Q1 – Tu 1/11 Lesson 1
Fri 3	**Tu 1/18**	1.3&1.4	p39: 68, 70, 71, 72, 75, 79, 80, 87, 89, 92, 94, 99, 100, 102, 105 p47: 1, 4, 5, 6, 10, 11, 17, 20, 22, 43, 44 , 50, 52	Q2 – Th 1/13 Lessons 1 - 2
Wed 4	**Th 1/20**	1.4	p48: 12, 13, 14, 23, 26, 27, 41, 42, 45, 46, 55, 56, 57, 65, 67, 69	
Fri 5	**Tu 1/25**	1.4&2.1	p48: 47, 48, 72, 73, 74, 76, 77, 78 p60: 4,6,8,9,10,12,16,18, 20, 22, 23, 29, 30, 31, 35, 37, 51, 67, 70, 74, 75	Q3 – Tu 1/18 Lessons 1 - 3
Mon 6	**Tu 1/25**	2.1&2.2	p60: 33, 34, 40, 44, 55, 59, 61, 68, 72, 73 p70: 1, 4, 8, 10, 11, 14, 17, 19, 27	Q4 – Th 1/20 Lessons 2 - 4
Wed 7	**Th 1/27**	2.2	p71: 12, 15, 16, 20, 21, 22, 23, 25, 26, 30, 31	Q5 – Tu 1/25 Lessons 4 - 6
Fri 8	**Tu 2/1**	2.2&2.3	p72: 33, 34, 35, 36, 38 p84: 1, 5, 11, 12, 13, 14, 20, 22, 26, 28, 33, 36, 41, 52, 57, 58, 59	Q6 – Th 1/27 Lessons 5 - 7
Mon 9	**Tu 2/1**	2.3&2.4	p84: 44, 54, 56, 60, 61, 62, 64, 65, 66, 73, 74, 76, 78, 80 p93: 15, 17, 18, 35, 36, 38, 39	
Wed 10	**Th 2/3**	2.4&2.6	p93: 4, 5, 9, 12, 19, 22, 30, 42, 46, 48, 52, 54, 55 p109: 1, 2, 3, 4, 5, 7, 8, 13, 14, 17, 20, 21, 22	
Thursday, February 3			**EXAM 1 – 8:00PM (90 minutes) – Lessons 1 to 10**	
Fri 11	**Tu 2/8**	2.6&2.7	p109: 29,35,36,41,42,44,47,48,49, 51, 54, 55, 58, 60, 63, 64, 67,70, 74, 75, 76, 78, 82, 83, 84 p117: 1, 3, 5	Q7 – Tu 2/8 Lessons 9 - 11
Mon 12	**Tu 2/8**	2.7&3.1	p117: 7,10,13,14,17,19,20,21,24,25, 27, 28, 29,30,32,41,42,44,45,47,48 p128: 2, 5, 6, 7, 8, 10, 14	Q8 – Th 2/10 Lessons 11 - 13
Wed 13	**Th 2/10**	3.1&3.2	p128: 15, 16, 18, 19, 20, 22, 24, 25, 26, 27, 28, 29, 30, 31, 34 p138: **1, 4, 7, 8, 9, 10, 12, 14, 16, 17, 19, 21**	
			(For the problems on p138, also find all x-axis, y-axis, or origin symmetries that exist.)	
Fri 14	**Tu 2/15**	3.2&3.3	p138: 25, 28, 31, 32, 34, 35, 36, 39, 40, 41, 44, 46, 47, 48, 50, 51, 57, 60, 63, 65, 68,70,72,73 p151: 1, 11, 13, 15, 19, 20, 22	Q9 – Tu 2/15 Lessons 13 - 15
Mon 15	**Tu 2/15**	3.3&3.4	p151: 23,27,29,32,34,35,38,39,40,43,44,46,49,50,54,55,58,60,62,63,66 p167: 1, 3, 4, 5, 6, 8	Q10 – Th 2/17 Lessons 14 - 16
Wed 16	**Th 2/17**	3.4	p167: 9,10,11,12,14,19,20,21,24,25,26,28,29,30,32,33,34,**39,40,41,42,45**	
Fri 17	**Tu 2/22**	3.4&3.5	p168: 47, 49, 50, 51, 52, 54, 65, 67, 68, 71, 72, 73, 76, 77, 78 p181: 3, 4, 6, 7, 8, 10, **13, 15, 18**	Q11 – Tu 2/22 Lessons 16 - 18
Mon 18	**Tu 2/22**	3.5	p181: **14, 16, 22, 23, 25, 27, 29, 31, 32, 33, 34, 35, 38, 39**, 43, 44, **60, 62**	
Wed 19	**Th 2/24**	3.5	p182: **41, 42,** 45, 46, **47, 49, 50, 51, 52, 58, 63, 64,** 65, 66, 68, 69	Q12 – Th 2/24 Lessons 17 - 19
Fri 20	**Tu 3/1**	3.6	p192: 6,7, 10, 12, **13, 14, 16, 17, 18, 19, 20, 21, 22,** 23, 24, 26, 30, 33, 38	
			(For #13&#14, also determine the domain, range, and increasing/decreasing intervals for *f*.)	
Mon 21	**Tu 3/3**	3.6	p193: 28, 29, 32, 34, 35, 36, 40, 41, 46, 47, 50, 51, 52, 53, 55, 56	Q13 – Tu 3/1 Lessons 19 - 21
Wed 22	**Th 3/3**	3.7	p203: 1,4,6,7,9,10, 13, 14, 16, 18, 21, 23, 24, 26, 32, 33, 35, 36, 37, 38	

Lesson	**Hw due**	Sections	HW Assignment Problems	
Thursday, March 3			**EXAM 2 – 8:00PM (90 minutes) – Lessons 10 to 22**	
Fri 23	**Tu 3/8**	3.7&4.1	p204: 40, 43, 45, 46, 49, 50, 52, 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.)**	Q14 – Tu 3/8 Lessons 22 - 24
Mon 24	**Tu3/8**	4.1,4.2,4.3,&4.5	p220:**27, 28, 32,** 36, 37,**42,43ab**,**45,46** p227: 1, 2, 4, 5, 8, 50a p238: **2, 4**, 12, 14, 49 p262: **1, 2, 7**	Q15 – Th 3/10 Lessons 23 - 25
Wed 25	**Th 3/10**	4.5	p263: **9, 10, 16, 18, 20, 22, 26, 30, 38, 41, 42,** 45, 46	
Fri 26	**Tu 3/22**	4.5&4.6	p263: **31, 32, 40, 44, 47, 48, 51, 52, 53** **(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.)**	
Mon 27	**Tu 3/22**	4.6&5.1	p270: 1, 3, 4, 6, 7, 10, 12, **13, 14** p270: **16, 17,** 20, 21, 22, 24 p285: **3,5,8,11**, 21, 22, 24, 25, 26, 28, 29, 30, 32, 34, 35,41,45,46,48	Q16 – Tu 3/22 Lessons 25 - 27
Wed 28	**Th 3/24**	5.2&5.3	p296: 1,2,5,7,10,**11,12,16,17,18,20,29,30,31,32**,33,34,**36,**39,41,42,46,48 p306: **1, 2, 3,** 5, 6, 7, 8, 11, 13, 14, 15, 16 **(For page 296 #18 also determine the domain, range, and increasing/decreasing intervals for *f*.)**	Q17 – Th 3/24 Lessons 26 - 28
Fri 29	**Tu 3/29**	5.3&5.4	p306: 18, 20, 22, 23, 24, 26, 27, 28, 30, 32, 35 p318: 2, 3, 11, 13, 15, 16, 18, 19, 20, 22, 25, 26, 27, 28, 30, 32, 34	
Mon 30	**Tu 3/29**	5.4&5.5	p319: **36,** 45, 46, 47, 48, 50, 51, 57, 64, 66, 67, 71, 74, 76, 77 p328: 1, 4, 6, 7, 8, 9, 11, 13 **(For page 319 #36d also determine the domain, range, and increasing/decreasing intervals for *f*.)**	Q18 – Tu 3/29 Lessons 28 - 30
Wed 31	**Th 3/31**	5.5&5.6	p328: 14, 16, 18, 22, 23, 26, 31, 34, 51, 53, 54, 56, 58, 59, 60 p339: 2, 3, 4, 5, 6, 10, 16, 19, 20, **44, 45, 46**	
Fri 32	**Tu 4/5**	5.6&6.1	p339: 11, 12, 51, 52, **55,** 56, 58, 59 p356: 2, 3, 4, 5, 7, 8, 9, 10, 13, 14, 16, 17, 18, 21, 22, 23, 24, 25, 27, 28	Q19 – Th 3/31 Lessons 29 - 31
Mon 33	**Tu 4/5**	6.1&6.2	p356: 30, 31, 32, 33, 34, 36, 37ad, 38, 39, 40, 41, 46, 47, 48, 50, 54 p372: 1, 3, 6, 7, 9, 17, 18, 19, 21	Q20 – Tu 4/5 Lessons 31 - 33
Wed 34	**Th 4/7**	6.2	p372: 11,12,16,20,22,23,24,26,27,29,31,32,35,36,37,39,41,44,48,53-66,72,76,77,78,80,83,84	
Fri 35	**Tu 4/12**	6.2&6.3	p375: 82, 87, 86, 90 p390: 17,19,27,28,29,30,31,32,39,41,42,43,46,47,49,50,51,52,55-59,74	Q21 – Th 4/7 Lessons 32 - 34
Mon 36	**Tu 4/12**	6.4	p399: 1,3,4,6,7,8,10,12,13,14,16,17,18,19, 21,22,23,24,25,29,30,34,36,37,38,39,41,43,44	
Wed 37	**Th 4/14**	7.2&6.5	p455: **1, 2, 3, 4, 5, 6, 7** p410: **1, 3, 6, 7, 8, 12, 16, 24, 26, 27, 28** **(On page 455, problems 1--7, use a graph of the sine, cosine, or tangent function**	Q22 – Tu 4/12 Lessons 34 - 36
Fri 38	**Tu 4/19**	6.5&6.7	p410: **32, 35, 38,** 41, 42, 43, 44, **46, 52, 53, 54, 56** p427: 1, 4, 6, 8, 10, 11, 13, 16, 18, 20, 25, 26 **(On page 427, also draw and label a proportionally correct triangle(s) for each problem.)**	Q23 – Th 4/14 Lessons 35 - 37
Mon 39	**Tu 4/19**	6.7	p428: 28, 29, 31, 32, 33, 34, 35, 36, 38, 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 4/21**	7.4&8.2	p473: 1, 2, 3, 4, 5, 6, 7, 8, 9, **10,** 50 p518: 1, 7, 12, 15, 17, 22, 24, 24, 25, 26	Q24 – Tu 4/19 Lessons 37 - 39
Thursday, April 21			**EXAM 3 – 8:00PM (90 minutes) – Lessons 23 to 40**	
Fri 41	**Tu 4/26**	9.1	p570: 2, 3, 7, 10, 11, 14, 18, 20, 21, 23, 25, 34, 38, 41, 42, 46 **(For the first 10 problems, also graph both equations and find the intersections.)**	
Mon 42	**Tu 4/26**	9.2, 9.5&11.5	p579: 1, 9, 10, 24, 25, 26, 30, 31, 35, 36, 42 p612: 1, 8 p784: 1, 2, 3, 4, 6, 9, 10, 11, 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 4/28**	11.5	p784: 14, 16, 18, 21, 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, May 2 – Saturday, May 7, 2010. The date and time of the final exam will be announced during the semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, MAY 7 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **<u>WILL NOT</u>** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.