MA 15800 **Assignment Sheet** **Fall 2012**

Text: Algebra and Trigonometry with Anal. Geom. by Swokowski/Cole, Classic 12th Ed., Brooks/Cole (2010) CUSTOM EDITION with Enhanced WebAssign Homework Card – ISBN – 9781133904564

**** No Calculators will be allowed on quizzes or exams until after Exam 1.**
After Exam 1, 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**. **You must provide work and analysis similar to what is shown in the textbook and demonstrated by your instructor.**

***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/MA15800 NOTE: Online HW links/instructions are on the webpage

Day/Lesson	Sections	HW Assignment Problems
Mon 1	3.4	p167: 1, 3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 19, 20, 21, 25, 26
Wed 2	3.4	p167: 24, 28, 29, 30, 32, 33, 34, **38, 39, 40, 41, 42, 45,** 47, 49, 50
Fri 3	3.4&3.5	p168: 51, 52, 54, 65, 67, 68, 71, 72, 73, 76, 77, 78 p181: 3, 4, 6, 7, 8, 10
Mon 4	3.5	p181: **13, 14, 15, 16, 18, 22, 23, 27, 29, 33, 34, 35**, 43, 44
Wed 5	3.5	p182: **25, 31, 32, 38, 39, 41, 42,** 45, 46**, 58**, **60, 62**
Fri 6	3.5	p182: **47, 49, 50, 51, 52, 58, 63, 64,** 65, 66, 68, 69
Wed 7	3.6	p192: 6, 7, 10, 12, **13, 14, 16, 17, 18, 19, 20, 21, 22,** 23, 24, 26, 30 **(For #13&#14, also determine the domain, range, and increasing/decreasing intervals for *f*.)**
Fri 8	3.6	p193: 28, 29, 32, 33, 34, 35, 36, 38, 40, 41, 47, 52
Mon 9	3.6&3.7	p193: 46, 50, 51, 53, 55, 56 p203: 1, 4, 6, 7, 9, 10, 13, 14, 16, 18, 37, 38
Wed 10	3.7	p203: 21, 23, 24, 26, 32, 33, 35, 36, 40, 43
Fri 11	3.7&4.1	p204: 45, 46, 49, 50, 52, 55, 56, 58, 60 p219: **2, 3, 14, 15, 22**

Tuesday, September 18 EXAM 1 – 8:00PM (90 minutes) – Lessons 1 to 11

Wed 12	4.1&4.2	p220: **17, 20, 23, 26, 27, 28, 32,** 36, 37, **42, 43ab**, **45, 46** p227: 1, 2, 4, 5, 8, 50a
Fri 13	4.3&4.5	p238: **2, 4**, 12, 14, 49 p262: **1, 2, 7, 9, 10, 18**
Mon 14	4.5	p263: **16, 20, 22, 26, 30, 38, 41, 42**
Wed 15	4.5	p263: **31, 32, 40, 44, 45, 46, 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.)**
Fri 16	5.1	p285: **3, 5, 8, 11**, 21, 22, 24, 25, 26, 28, 29, 30, 32, 34, 35, 37, 41, 45, 46, 48
Mon 17	5.2	p296: 1, 2, 5, 7, 10, **11, 12, 16, 17, 18, 20, 29, 30, 31, 32**, 33, 34, **36,** 39, 41, 42, 46, 48 **(For page 296 #18 also determine the domain, range, and increasing/decreasing intervals for *f*.)**
Wed 18	5.3	p306: **1, 2, 3,** 5, 6, 7, 8, 11, 13, 14, 15, 16, 18, 20, 22, 23, 24, 26, 27, 28, 30, 32, 35
Fri 19	5.4	p318: 2, 3, 11, 13, 15, 16, 18, 19, 20, 22, 25, 26, 27, 28, 30, 32, 34
Wed 20	5.4	p319: **36,** 45, 46, 47, 48, 50, 51, 57, 64, 66, 67, 71, 74, 76, 77 **(For page 319 #36d also determine the domain, range, and increasing/decreasing intervals for *f*.)**

Lesson **Hw due** Sections HW Assignment Problems

Fri 21 5.5 p328: 1, 4, 6, 7, 8, 9, 11, 13, 14, 16, 18, 22, 23

Mon 22 5.5&5.6 p328: 26, 31, 34, 51, 53, 54, 56, 58, 59, 60
p339: 2, 3, 4, 5, 6, 10, **44, 45, 46**

Thursday, October 18 EXAM 2 – 8:00PM (90 minutes) – Lessons 12 to 22

Fri 23 5.6&6.1 p339: 11, 12, 16, 19, 20, 51, 52, **55,** 56, 58, 59
p356: 2, 5, 7, 8, 21, 22, 23, 24, 25, 27, 28

Mon 24 6.1 p356: 3, 4, 9, 10, 13, 14, 16, 17, 18, 30, 31, 32, 33, 34, 36, 37ad, 38, 39

Wed 25 6.1&6.2 p356: 40, 41, 46, 47, 48, 50, 54
p372: 1, 3, 6, 7, 9, 17, 18, 19, 21

Fri 26 6.2 p372: 11, 12, 16, 20, 22, 23, 24, 26, 27, 29, 31, 32, 72, 76, 77, 78, 80, 82, 83, 84

Mon 27 6.2&6.3 p375: 35, 36, 37, 39, 41, 44, 48, 53-66, 86, 87, 90
p390: 27, 28, 39, 41, 42

Wed 28 6.3&6.4 p390: 17, 19, 29, 30, 31, 32, 43, 46, 47, 49, 50, 51, 52, 55-59, 74
p399: 1, 3, 4, 6, 7, 8, 10, 12

Fri 29 6.4&7.2 p399: 13, 14, 16, 17, 18, 19, 21, 22, 23, 24, 25, 29, 30, 34, 36
p455: **1, 2, 3, 4, 5, 6, 7**
(On page 455, problems 1--7, use a graph of the sine, cosine, or tangent function

Mon 30 6.4&6.5 p399: 37, 38, 39, 41, 43, 44
p410: **1, 3, 24, 26**

Wed 31 6.5 p410: **6, 7, 8, 12, 16, 27, 28, 32, 35, 38**

Fri 32 6.5 p410: 41, 42, 43, 44, **46, 52, 53, 54, 56**

Tuesday, November 13 EXAM 3 – 8:00PM (90 minutes) – Lessons 23 to 32

Wed 33 6.7 p427: 1, 4, 6, 8, 10, 11, 13, 16, 18, 20, 25, 26, 28, 29, 31, 32, 35, 36, 38
(Also draw and label a proportionally correct triangle(s) for each problem.)

Fri 34 6.7 p428: 33, 34, 39, 41, 43, 44, 45, 46, 47, 48, 50, 51
(Also draw and label a proportionally correct triangle(s) for each problem.)

Mon 35 7.4 p473: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 50

Mon 36 8.2&9.1 p518: 1, 7, 12, 15, 17, 22, 24, 24, 25, 26
p570: 2, 3, 7, 10, 11, 14, 18
(For p. 570 also graph both equations and find the intersection(s).)

Wed 37 9.1&9.2 p570: 20, 21, 23, 25, 34, 38, 41, 42, 46
p579: 1, 9, 10, 24, 25, 26, 31

Fri 38 9.2, 9.5&11.5 p579: 30, 35, 36, 42
p612: 1, 8
p784: 1, 2, 3, 4, 6, 9, 10, 11, 12
(On page 579 and page 612, use the method of substitution, <u>not</u> <u>elimination or matrices</u>.)

Mon 39 11.5 p784: 14, 16, 18, 21, 28, 30, 31, **45, 46, 47, 48**

Wed 40 11.5 p784: 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 10 – Saturday, December 15, 2012. The date and time of the final exam will be announced during the semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, DECEMBER 15 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **<u>WILL NOT</u>** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.