

Text: Algebra and Trigonometry with Anal. Geom. by Swokowski/Cole, Classic 12th Ed., Brooks/Cole (2010) CUSTOM EDITION with Enhanced WebAssign Homework Card – ISBN – 1-111-87720-3

**** 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. 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/MA15900 **NOTE:** Online HW links/instructions are on the webpage

Lesson	Hw due	Sections	HW Assignment Problems	
Mon 1	Tu 1/10	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 1/12	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 1/10 Lesson 1
Fri 3	Tu 1/17	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 1/12 Lessons 1 - 2
Wed 4	Th 1/19	1.4	p48: 12, 13, 14, 23, 26, 27, 41, 42, 45, 46, 55, 56, 57, 65, 67, 69	Q3 – Tu 1/17 Lessons 1 - 3
Fri 5	Tu 1/24	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	Q4 – Th 1/19 Lessons 2 - 4
Mon 6	Tu 1/24	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	Q5 – Tu 1/24 Lessons 4 - 6
Wed 7	Th 1/26	2.2	p71: 12, 15, 16, 20, 21, 22, 23, 25, 26, 30, 31	Q6 – Th 1/26 Lessons 5 - 7
Fri 8	Tu 1/31	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	Q7 – Th 1/31 Lessons 7 - 9
Mon 9	Tu 1/31	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 2/2	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 2 EXAM 1 – 8:00PM (90 minutes) – Lessons 1 to 10

Fri 11	Tu 2/7	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	Q8 – Tu 2/7 Lessons 10 - 12
Mon 12	Tu 2/7	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	Q9 – Th 2/9 Lessons 11 - 13
Wed 13	Th 2/9	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 determine all x-axis, y-axis, or origin symmetries that exist.)				
Fri 14	Tu 2/14	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	Q10 – Tu 2/14 Lessons 13 - 15
Mon 15	Tu 2/14	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	Q11 – Th 2/16 Lessons 14 - 16
Wed 16	Th 2/16	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	Q12 – Tu 2/21 Lessons 16 - 18
Fri 17	Tu 2/21	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	Q13 – Th 2/23 Lessons 17 - 19
Mon 18	Tu 2/21	3.5	p181: 14, 16, 22, 23, 25, 27, 29, 31, 32, 33, 34, 35, 38, 39 , 43, 44, 60, 62	
Wed 19	Th 2/23	3.5	p182: 41, 42 , 45, 46, 47, 49, 50, 51, 52, 58, 63, 64 , 65, 66, 68, 69	
Fri 20	Tu 2/28	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 2/28	3.6	p193: 28, 29, 32, 34, 35, 36, 40, 41, 46, 47, 50, 51, 52, 53, 55, 56	Q14 – Tu 2/28 Lessons 19 - 21
Wed 22	Th 3/1	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 1 EXAM 2 – 8:00PM (90 minutes) – Lessons 10 to 22

Fri 23	Tu 3/6	3.7&4.1	p204: 40, 43, 45, 46, 49, 50, 52, 55, 56, 58, 60 p219: 2, 4, 14, 17, 20, 22, 26	Q15 – Tu 3/6 Lessons 22 - 24
(For page 220 #14 also determine the domain, range, and increasing/decreasing intervals for f .) (For page 220 #20, also determine whether the function is even, odd, or neither.)				
Mon 24	Tu 3/6	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	
Wed 25	Th 3/8	4.5	p263: 9, 10, 16, 18, 20, 22, 26, 30, 38, 41, 42, 45, 46	Q16 – Th 3/8 Lessons 23 - 25
Fri 26	Tu 3/20	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 3/20	4.6&5.1	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	Q17 – Tu 3/20 Lessons 25 - 27
Wed 28	Th 3/22	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	Q18 – Th 3/22 Lessons 26 - 28
(For page 296 #18 also determine the domain, range, and increasing/decreasing intervals for f .)				
Fri 29	Tu 3/27	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 3/27	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	Q19 – Tu 3/27 Lessons 28 - 30
(For page 319 #36d also determine the domain, range, and increasing/decreasing intervals for f .)				
Wed 31	Th 3/29	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	Q20 – Th 3/29 Lessons 29 - 31
Fri 32	Tu 4/3	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	
Mon 33	Tu 4/3	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	Q21 – Tu 4/3 Lessons 31 - 33
Wed 34	Th 4/5	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 4/10	6.2&6.3	p375: 82, 86, 87, 90 p390: 17,19,27,28,29,30,31,32,39,41,42,43,46,47,49,50,51,52,55-59,74	Q22 – Th 4/5 Lessons 32 - 34
Mon 36	Tu 4/10	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 4/12	7.2&6.5	p455: 1, 2, 3, 4, 5, 6, 7 p410: 1, 3, 6, 7, 8, 12, 16, 24, 26, 27, 28	Q23 – Tu 4/10 Lessons 34 - 36
(On page 455, problems 1--7, use a graph of the sine, cosine, or tangent function)				

Thursday, April 12 EXAM 3 – 8:00PM (90 minutes) – Lessons 22 to 37

Fri 38	Tu 4/17	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	Q24 – Th 4/17 Lessons 37 - 39
(On page 427, also draw and label a proportionally correct triangle(s) for each problem.)				
Mon 39	Tu 4/17	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 4/19	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	Q25 – Tu 4/19 Lessons 38 - 40
Fri 41	Tu 4/24	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 4/24	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 elimination or matrices.</u>)				
Wed 43	Th 4/26	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, April 30 – Saturday, May 5, 2012. The date and time of the final exam will be announced during the semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, MAY 5 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **WILL NOT** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.