

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-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 1/13	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 1/15 Lessons 1 - 2
Wed 2	Th 1/15	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 1/20	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 1/20 Lessons 1 - 3
Wed 4	Th 1/22	1.4	p48: 11, 14, 26, 41, 42, 45, 46, 56, 57, 65, 67, 69	
Fri 5	Tu 1/27	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 1/22 Lessons 2 - 4
Mon 6	Tu 1/27	2.1&2.2	p60: 44, 72, 73 p70: 1, 4, 8, 10, 11, 14, 16, 17, 19, 27	Q4 – Tu 1/27 Lessons 4 - 6
Wed 7	Th 1/29	2.2	p71: 20, 21, 22, 23, 25, 26, 30, 31	
Fri 8	Tu 2/3	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 1/29 Lessons 5 - 7
Mon 9	Tu 2/3	2.3&2.4	p84: 44, 54, 61, 62, 64, 65, 74, 76, 78 p93: 15, 18, 36, 38, 39	
Wed 10	Th 2/5	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 2/3 Lessons 7 - 9
Thursday, February 5			EXAM 1 – 8:00PM (90 minutes) – Lessons 1 to 10	
Fri 11	Tu 2/10	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 2/10 Lessons 10 - 12
Mon 12	Tu 2/10	2.7&3.1	p117: 10, 14, 20, 24, 25, 28, 30, 32, 42, 44, 45, 48 p128: 5, 8, 10	Q8 – Th 2/12 Lessons 11 - 13
Wed 13	Th 2/12	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 2/17	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 2/17 Lessons 13 - 15
Mon 15	Tu 2/17	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 2/19 Lessons 14 - 16
Wed 16	Th 2/19	3.4	p167: 9, 10, 11, 12, 14, 19, 20, 24, 28, 29, 30, 32, 40, 41, 46	
Fri 17	Tu 2/24	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 2/24 Lessons 16 - 18
Mon 18	Tu 2/24	3.5	p181: 22, 41abefhijk, 42abcde, 43, 44, 60, 62	Q12 – Th 2/26 Lessons 17 - 19
Wed 19	Th 2/26	3.5	p182: 41gl, 42fghijkl, 45, 46, 47, 52, 64, 65, 68, 69	
Fri 20	Tu 3/3	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.)				
Mon 21	Tu 3/3	3.6	p193: 32, 34, 36, 41, 46, 47, 50, 51, 52, 55, 56	Q13 – Tu 3/3 Lessons 19 - 21
Wed 22	Th 3/5	3.7	p203: 1, 4, 6, 10, 14, 18, 23, 24, 26, 32, 36, 38, 40	
Thursday, March 5			EXAM 2 – 8:00PM (90 minutes) – Lessons 10 to 22	

Lesson Hw due Sections HW Assignment Problems

Fri 23 Tu 3/10 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, also determine whether the function is even, odd, or neither.)

Mon 24 Tu3/10 4.1,4.2,4.3,&4.5 p220: **28, 32, 36, 42, 43ab, 46** p227: 2, 4, 5, **8, 50a** Q14 – Tu 3/10
p238: 2, 4, 12, 14, 49 p262: **1, 2, 7** Lessons 22 - 24

Wed 25 Th 3/12 4.5 p263: **10, 16, 18, 20, 22, 26, 30, 37, 42, 45, 46** Q15 – Th 3/12
Fri 26 Tu 3/24 4.5&4.6 p263: **32, 40, 44, 47, 48, 51, 52** Lessons 23 - 25

(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**

Mon 27 Tu 3/24 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** Q16 – Tu 3/24
p296: 1, **5, 12, 16, 18, 20, 30, 32, 33, 34, 36, 39, 41, 42, 46, 48** Lessons 25 - 27
p306: **2, 3, 6, 8, 12, 13, 14, 16**

Wed 28 Th 3/26 5.2&5.3 p306: **2, 3, 6, 8, 12, 13, 14, 16** Q17 – Th 3/26
(For page 296 #18 also determine the domain, range, and increasing/decreasing intervals for f) Lessons 26 - 28

Fri 29 Tu 3/31 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**

Mon 30 Tu 3/31 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 3/31
(For page 319 #36d also determine the domain, range, and increasing/decreasing intervals for f .) Lessons 28 - 30

Wed 31 Th 4/2 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 4/2
p356: 2, **4, 5, 8, 9, 10, 14, 22, 24, 25, 28, 17, 18** Lessons 29 - 31

Fri 32 Tu 4/7 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**

Mon 33 Tu 4/7 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 4/7
p372: 12, **16, 20, 22, 23, 24, 26, 29, 31, 35, 37, 54, 56, 62, 63, 72, 76, 77, 80, 84** Lessons 31 - 33

Wed 34 Th 4/9 6.2 p372: 12, **16, 20, 22, 23, 24, 26, 29, 31, 35, 37, 54, 56, 62, 63, 72, 76, 77, 80, 84**

Fri 35 Tu 4/14 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 4/9
p399: 1, 3, 6, 7, 8, 10, 12, 14, 16, 18, 19, 21, 23, 25, 30, 36acf, 38bde, 41, **43, 44** Lessons 32 - 34

Mon 36 Tu 4/14 6.4 p455: 1, 2, 3, **4, 5, 6, 7** p410: **1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28** Q22 – Tu 4/14
Wed 37 Th 4/16 7.2&6.5 p410: **1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28** 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 $[0, 2\pi)$ for each problem.)

Thursday, April 16 EXAM 3 – 8:00PM (90 minutes) – Lessons 22 to 37

Fri 38 Tu 4/21 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 4/21
(On page 427, also draw and label a proportionally correct triangle(s) for each problem.) Lessons 37 - 39

Mon 39 Tu 4/21 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 4/23 7.4 p473: 1, 2, 3, 4, 5, 6, 7, 8, 9, **10, 50** Q24 – Th 4/23
Fri 41 Tu 4/28 9.1 p570: 2, 3, 10, 11, 14, 20, 21, 23, 32, **33, 34, 36, 39, 40, 44** Lessons 38 - 40

(For the first 7 problems, also graph both equations and find the intersections.)

Mon 42 Tu 4/28 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 4/30 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, May 4 – Saturday, May 9, 2009. The date and time of the final exam will be announced during the semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, MAY 9 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **WILL NOT** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.