

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 or 2-line scientific calculator which has trigonometric & logarithmic functions, and their inverses is required for some of the problems. ALSO: Several homework problems throughout the semester require a scientific calculator to approximate an answer. (Recommended: 1-line or 2-line TI-30 calculators).

Graphing calculators or programmable calculators 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/MA159 NOTE: Online HW links/instructions are on the webpage

Lesson Hw due Sections HW Assignment Problems

Mon 1	Tu 8/21	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 8/23 Lessons 1 - 2
Wed 2	Th 8/23	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 8/28	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 8/28 Lessons 2 - 4
Mon 4	Tu 8/28	1.4	p48: 11, 14, 26, 41, 42, 45, 46, 56, 57, 65, 67, 69	
Wed 5	Th 8/30	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 8/30 Lessons 3 - 5
Fri 6	Tu 9/4	2.1&2.2	p60: 44, 72, 73 p70: 1, 4, 8, 10, 11, 14, 16, 17, 19, 27	
Wed 7	Th 9/6	2.2	p71: 20, 21, 22, 23, 25, 26, 30, 31	Q4 – Tu 9/4 Lessons 4 - 6
Fri 8	Tu 9/11	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	
Mon 9	Tu 9/11	2.3&2.4	p84: 44, 54, 61, 62, 64, 65, 74, 76, 78 p93: 15, 18, 36, 38, 39	Q5 – Th 9/6 Lessons 5 - 7

Tuesday September 11

EXAM 1 – 8:30PM (90 minutes) – Lessons 1 to 9

Wed 10	Th 9/13	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 – Th 9/13 Lessons 8 - 10
Fri 11	Tu 9/18	2.6&2.7	p109: 29, 36, 42, 44, 51, 54, 58, 64, 70, 75, 76, 78, 82, 83, 84 p117: 1, 3, 5	
Mon 12	Tu 9/18	2.7&3.1	p117: 10, 14, 20, 24, 25, 28, 30, 32, 42, 44, 45, 48 p128: 5, 8, 10	Q7 – Tu 9/18 Lessons 10 - 12
Wed 13	Th 9/20	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 9/25	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 9/25 Lessons 13 - 15
Mon 15	Tu 9/25	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	
Wed 16	Th 9/27	3.4	p167: 9, 10, 11, 12, 14, 19, 20, 24, 28, 29, 30, 32, 40, 41, 46	Q10 – Th 9/27 Lessons 14 - 16
Fri 17	Tu 10/2	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	
Mon 18	Tu 10/2	3.5	p181: 22, 41abefhijk, 42abcde, 43, 44, 60, 62	Q11 – Tu 10/2 Lessons 16 - 18
Wed 19	Th 10/4	3.5	p182: 41gl, 42fghijkl, 45, 46, 47, 52, 64, 65, 68, 69	
Fri 20	Th 10/11	3.6	p192: 7, 10, 12, 13, 14, 18, 20, 23, 26, 30, 33, 38	Q12 – Th 10/4 Lessons 17 - 19
(For #13&#14, also determine the domain, range, and increasing/decreasing intervals for f.)				
Wed 21	Th 10/11	3.6	p193: 32, 34, 36, 41, 46, 47, 50, 51, 52, 55, 56	

Thursday October 11 EXAM 2 – 8:30PM (90 minutes) – Lessons 9 to 21

Lesson Hw due Sections HW Assignment Problems

Fri 22 Tu 10/16 3.7 p203: 1, 4, 6, 10, 14, 18, 23, 24, 26, 32, 36, 38, 40

Mon 23 Tu 10/16 3.7&4.1 p204: 45, 46, 49, 50, 55, 56, 58, 60
p219: 2, 4, 14, 17, 20, 22, 26

Q13 – Tu 10/16
Lessons 21 - 23

(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.)

Wed 24 Th 10/18 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

Q14 – Th 10/18
Lessons 22 - 24

Fri 25 Tu 10/23 4.5 p263: 10, 16, 18, 20, 22, 26, 30, 37, 42, 45, 46

Q15 – Tu 10/23
Lessons 24 - 26

Mon 26 Tu 10/23 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.)

p270: 3, 4, 6, 12, 13, 14

Q16 – Th 10/25
Lessons 25 - 27

Wed 27 Th 10/25 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

Fri 28 Tu 10/30 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

Q17 – Tu 10/30
Lessons 27 - 29

(For page 296 #18 also determine the domain, range, and increasing/decreasing intervals for f .)

Mon 29 Tu 10/30 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 11/1 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 – Th 11/1
Lessons 28 - 30

(For page 319 #36d also determine the domain, range, and increasing/decreasing intervals for f .)

Fri 31 Tu 11/6 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 – Tu 11/6
Lessons 30 - 32

Mon 32 Tu 11/6 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 11/8 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 11/13
Lessons 33 - 35

Thursday November 8 EXAM 3 – 8:30PM (90 minutes) – Lessons 20 to 33

Fri 34 Tu 11/13 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 11/13 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 11/15
Lessons 34 - 36

Wed 36 Th 11/15 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 11/20 7.2&6.5 p455: 1, 2, 3, 4, 5, 6, 7
p410: 1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28

Q22 – Tu 11/20
Lessons 36 - 38

(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.)

Mon 38 Tu 11/20 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 11/27
Lessons 37 - 39

(On page 427, also draw and label a proportionally correct triangle(s) for each problem.)

Mon 39 Tu 11/27 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 11/29 7.4 p473: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 50

Fri 41 Tu 12/4 9.1 p570: 2, 3, 10, 11, 14, 20, 21, 23, 32, 33, 34, 36, 39, 40, 44

Q24 – Th 11/29
Lessons 38 - 40

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

Mon 42 Tu 12/4 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 12/6 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 10 – Saturday, December 15, 2007. 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 **WILL NOT** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.