

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 scientific calculator which has square roots, trigonometric and logarithmic functions, and their inverses is required for some of the problems. Additionally, several assigned homework problems throughout the semester require you to use a scientific calculator to approximate an answer. **(Recommended: TI-30 calculator).**

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 Assignment

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

Thursday February 1

EXAM 1 – 8:30PM (90 minutes) – Lessons 1 to 10

Fri 11	Tu 2/6	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 2/6 Lessons 10 - 12
Mon 12	Tu 2/6	2.7&3.1	p117: 10, 14, 20, 24, 25, 28, 30, 32, 42, 44, 45, 48 p128: 5, 8, 10	Q8 – Th 2/8 Lessons 11 - 13
Wed 13	Th 2/8	3.1&3.2	p128: 16, 20, 22, 24, 25, 26, 28, 30, 31, 34 p138: 4, 8, 10, 14, 17	Q9 – Tu 2/13 Lessons 13 - 15
(For the problems on p138, also determine all x-axis, y-axis, or origin symmetries that exist.)				
Fri 14	Tu 2/13	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	Q10 – Th 2/15 Lessons 14 - 16
Mon 15	Tu 2/13	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	Q11 – Tu 2/20 Lessons 16 - 18
Wed 16	Th 2/15	3.4	p167: 9, 10, 11, 12, 14, 19, 20, 24, 28, 29, 30, 32, 40, 41, 46	
Fri 17	Tu 2/20	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	Q12 – Th 2/22 Lessons 17 - 19
Mon 18	Tu 2/20	3.5	p181: 22, 41abefhijk, 42abcde, 43, 44, 60, 62	
Wed 19	Th 2/22	3.5	p182: 41gl, 42fghijkl, 45, 46, 47, 52, 64, 65, 68, 69	Q13 – Tu 2/27 Lessons 19 - 21
Fri 20	Tu 2/27	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 2/27	3.6	p193: 32, 34, 36, 41, 46, 47, 50, 51, 52, 55, 56	
Wed 22	Th 3/1	3.7	p203: 1, 4, 6, 10, 14, 18, 23, 24, 26, 32, 36, 38, 40	Q14 – Th 3/1 Lessons 20 - 22

Lesson Hw due Sections Assignment

Fri 23 Tu 3/6 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 Tu 3/6 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

Tuesday March 6 EXAM 2 – 8:30PM (90 minutes) – Lessons 10 to 24

Wed 25 Th 3/8 4.5 p263: 10, 16, 18, 20, 22, 26, 30, 37, 42, 45, 46

Q15 – Th 3/8
Lessons 23 - 25

Fri 26 Tu 3/20 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

Mon 27 Tu 3/20 4.6&5.1 p270: 16, 17, 20, 21, 22, 24

Q16 – Tu 3/20
Lessons 25 - 27

p285: 5, 8, 10, 11, 16, 25, 26, 28, 30, 32, 34, 35, 41, 45, 46, 48

Wed 28 Th 3/22 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 – 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, 28, 30, 32

p318: 1ae, 3ae, 11ae, 13ae, 16, 18, 20, 27, 26, 28, 30, 32, 34

Mon 30 Tu 3/27 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 3/27
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, 53, 54, 56, 59, 60

p339: 2, 3, 4, 6, 10, 16, 20, 44, 45, 46

Fri 32 Tu 4/3 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 4/3 6.1&6.2 p356: 30, 31, 32, 33, 34, 36, 37ad, 38, 46, 47, 48, 50

p372: 3, 6, 7, 9, 19, 18

Q19 – Th 3/29
Lessons 29 - 31

Wed 34 Th 4/5 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 4/10 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

Mon 36 Tu 4/10 6.4 p399: 1, 3, 6, 7, 8, 10, 12, 14, 16, 18, 19, 21, 23, 25, 30, 36acf, 38bde, 41, 43, 44

Wed 37 Th 4/12 7.2&6.5 p455: 1, 2, 3, 4, 5, 6, 7

p410: 1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28

Q21 – Th 4/5
Lessons 32 - 34

Q22 – Tu 4/10
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.)

Fri 38 Tu 4/17 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 – Th 4/12
Lessons 35 - 37

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

Mon 39 Tu 4/17 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.)

Tuesday April 17 EXAM 3 – 8:30PM (90 minutes) – Lessons 24 to 39

Wed 40 Th 4/19 7.4 p473: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 50

Q24 – Th 4/19
Lessons 38 - 40

Fri 41 Tu 4/24 9.1 p570: 2, 3, 10, 11, 14, 20, 21, 23, 32, 33, 34, 36, 39, 40, 44

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

Mon 42 Tu 4/24 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 4/26 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, April 30 – Saturday, May 5, 2007. 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.