

Text: Algebra and Trigonometry with Analytic Geometry by Swokowski/Cole, Classic Tenth Edition, Brooks/Cole (2003).

**** 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, it should be noted that several assigned homework problems throughout the semester require you to use a scientific calculator to approximate an answer.

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**. Let me repeat that: **All** quiz responses should be written clearly **with sufficient work shown to justify the answer**. Whenever possible, check your answer.

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.

The course Web page is: www.math.purdue.edu/MA151

Lesson Hw due Sections Assignment

Mon 1	Tu 8/26	1.2	p25: 5, 6, 7, 8, 10, 13, 16, 20, 23, 24, 31, 32, 49, 51, 53, 55, 58, 95, 97, 99
Wed 2	Th 8/28	1.2&1.3	p25: 36, 37, 41, 42, 45, 59, 64, 65, 67, 68, 70, 78, 96, 98, 100 p38: 5, 10, 12, 14, 18, 23, 33, 38, 47, 52, 56, 58, 62
Fri 3	Tu 9/2	1.3&1.4	p39: 68, 72, 92, 97, 98, 100, 103 p47: 1, 3, 5, 6, 10, 17, 20, 22, 43, 44
Wed 4	Th 9/4	1.4	p48: 11, 14, 26, 41, 42, 45, 46, 50, 52, 56, 57, 65, 67
Fri 5	Tu 9/9	1.4&2.1	p48: 47, 48, 69, 72, 74, 76, 78 p60: 5, 7, 10, 12, 21, 34, 37, 40, 51, 55, 63, 66
Mon 6	Tu 9/9	2.1&2.2	p61: 44, 68, 69, 70, 71 p71: 1, 4, 6, 8, 9, 12, 14, 15, 17
Wed 7	Th 9/11	2.2	p72: 18, 19, 20, 21, 23, 24, 25, 28
Fri 8	Tu 9/16	2.2&2.3	p73: 29, 31, 32, 33, 34, 36 p84: 1, 5, 12, 14, 20, 22, 26, 28, 53, 54, 55
Mon 9	Tu 9/16	2.3	p84: 33, 36, 44, 48, 50, 57, 58, 60, 61, 70, 72, 74
Wed 10	Th 9/18	2.4	p94: 3, 8, 12, 15, 18, 19, 22, 30, 35, 36, 38, 39, 46, 48, 50, 52, 53
Fri 11	Tu 9/23	2.6	p110: 1, 3, 7, 13, 17, 21, 29, 36, 42, 44, 51, 54, 58, 64, 70, 75, 76, 78, 82, 83, 84
Mon 12	Tu 9/23	2.7	p118: 1, 3, 10, 14, 20, 24, 25, 28, 30, 32, 42, 44, 45, 48
Wed 13	Th 9/25	3.1	p130: 5, 8, 10, 16, 20, 22, 24, 25, 26, 28, 30, 31, 34

Thursday September 25 EXAM 1 – 6:30PM (90 minutes) – Lessons 1 to 13

Fri 14	Tu 9/30	3.2	p141: 4, 8, 10, 14, 17, 25, 28, 31, 34, 36, 40, 41, 44, 46, 47, 50, 51, 60, 62, 64, 66, 68 (For the first 5 problems, also determine all x-axis, y-axis, or origin symmetries that exist.)
Mon 15	Tu 9/30	3.3	p153: 16, 18, 20, 21, 25, 27, 30, 32, 36, 38, 42, 44, 47, 48, 52, 53, 56, 58, 60, 61
Wed 16	Th 10/2	3.4	p169: 3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16, 20, 24, 25, 26, 28
Fri 17	Tu 10/7	3.4	p169: 29, 30, 34, 35, 40, 41, 42, 43, 44, 46, 57, 59, 60, 64, 65, 68a, 70
Mon 18	Tu 10/7	3.5	p181: 2, 4, 6, 8, 16, 20, 39abcdefij, 40abcde, 41, 43, 58, 60
Wed 19	Th 10/9	3.5	p182: 39ghkl, 40ghijkl, 42, 44, 45, 50, 62, 63, 64, 66, 67
Fri 20	Th 10/16	3.6	p192: 7, 10, 12, 13, 14, 18, 20, 23, 26, 28, 31, 36 (For #13, also determine the domain, range, and increasing/decreasing intervals for f.)
Wed 21	Th 10/16	3.6	p193: 30, 32, 34, 39, 44, 45, 48, 49, 50, 53, 54
Fri 22	Tu 10/21	3.7	p202: 1, 4, 6, 10, 14, 18, 23, 24, 26, 32, 36, 38, 40
Mon 23	Tu 10/21	3.7&3.8	p204: 45, 46, 49, 50, 55, 56, 58, 60 p213: 3, 6, 8, 9, 14, 19, 20, 22, 24, 39
Wed 24	Th 10/23	3.8&3.9	p214: 26, 28, 29, 35, 40, 42 p219: 3, 4, 6, 12, 13, 14, 16, 17, 20, 21, 22, 24

Thursday October 23 EXAM 2 – 6:30PM (90 minutes) – Lessons 14 to 24

Lesson Hw due Sections Assignment

Fri 25	Tu 10/28	4.1&4.2	p237: 2, 4, 12, 15, 18, 20, 24, 26, 30, 34, 40, 41ab, 44 p245: 2, 4, 5, 8, 50a (For page 237 #12 also determine the domain, range, and increasing/decreasing intervals for f .) (For page 237 #18, also determine whether the function is even, odd, or neither.)
Mon 26	Tu 10/28	4.3&4.5	p256: 1, 2, 4, 12, 14, 45 p279: 1, 2, 3, 6, 12, 14, 16, 18, 22
Wed 27	Th 10/30	4.5	p280: 26, 28, 33, 36, 38, 40, 41, 42, 43, 44, 51, 52 (For page 280 #28&36 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 28	Tu 11/4	5.1&5.2	p293: 1, 5, 12, 16, 18, 20, 26, 28, 29, 30, 32, 35, 37, 38, 42, 44 p302: 2, 3, 6, 8, 12, 13, 14, 16 (For page 293 #18 also determine the domain, range, and increasing/decreasing intervals for f .)
Mon 29	Tu 11/4	5.2&5.3	p303: 18, 20, 22, 23, 24, 26, 28, 30, 32 p315: 1ae, 3ae, 9ae, 11ae, 14, 16, 18, 25, 24, 26, 28, 30, 32
Wed 30	Th 11/6	5.3&5.4	p316: 34, 42, 44, 46, 47, 53, 60, 62, 63, 70, 72 p326: 1, 4, 6, 7, 8, 9, 11, 13 (For page 316 #34d also determine the domain, range, and increasing/decreasing intervals for f .)
Fri 31	Tu 11/11	5.4&5.5	p326: 14, 16, 18, 22, 23, 26, 34, 31, 53, 54, 56, 59, 60 p336: 2, 3, 4, 6, 10, 16, 20, 42, 43, 44
Mon 32	Tu 11/11	5.5&6.1	p337: 12, 49, 50, 53, 54, 56, 57 p354: 2, 4, 5, 8, 9, 10, 14, 22, 24, 25, 28, 17, 18
Wed 33	Th 11/13	6.1&6.2	p354: 30, 31, 32, 33, 34, 36, 37ad, 38, 44, 45, 46, 48 p369: 1, 4, 5, 7, 17, 16
Fri 34	Tu 11/18	6.2	p369: 10, 14, 18, 20, 21, 22, 24, 27, 29, 31, 33, 50, 52, 58, 59, 68, 72, 73, 76, 80
Mon 35	Tu 11/18	6.2&6.3	p372: 78, 83, 82, 86 p388: 17, 19, 27, 28, 29, 30, 31, 32, 41, 42, 43, 46, 49, 50, 56, 58, 59, 74
Wed 36	Th 11/20	6.4	p397: 1, 3, 6, 7, 8, 10, 12, 14, 16, 18, 19, 21, 23, 25, 30, 36acf, 38bde, 41, 43, 44

Thursday November 20 EXAM 3 – 8:30PM (90 minutes) – Lessons 25 to 36

Fri 37	Tu 11/25	7.2&6.5	p454: 1, 2, 3, 4, 5, 6, 7 p408: 1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28 (On page 454, 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 11/25	6.5&6.7	p409: 32, 38, 41, 42, 43, 44, 46, 52, 53, 54 p425: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 26 (On page 425, also draw and label a proportionally correct triangle(s) for each problem.)
Mon 39	Tu 12/2	6.7	p426: 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 12/4	7.4	p474: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 48
Fri 41	Tu 12/9	9.1	p570: 2, 3, 10, 11, 14, 20, 21, 23, 31, 32, 33, 34, 35, 36, 40 (For the first 7 problems, also graph both equations and find the intersections.)
Mon 42	Tu 12/9	9.2, 9.5&11.5	p579: 1, 9, 22, 23, 24, 28, 29, 34, 40a p611: 1, 8 p788: 1, 2, 3, 4, 6, 9, 10, 12, 45, 46, 47, 48 (On page 579 and page 611, use the method of substitution, <u>not elimination or matrices.</u>)
Wed 43	Th 12/11	11.5	p788: 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 a two-hour final during finals week, Monday, December 15 – Saturday, December 20, 2002.