

Text: Algebra and Trigonometry with Anal. Geom. by Swokowski/Cole, Classic 10th Ed., 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, several assigned homework problems throughout the semester require you to use a scientific calculator to approximate an answer. (Recommendation: 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 a traditional hand-written component and an online component. The **bolded problems** indicate the problems you must solve by the **traditional hand-written method**. **Warning:** In addition to attending all lectures, in order to be adequately prepared for the exams you will need to do all the homework problems the entire semester. The answers to all the even numbered problems on each assignment will be available in the Tuesday and Thursday recitation classes.

Course Webpage: [www.math.purdue.edu/MA159](http://www.math.purdue.edu/MA159) NOTE: Online HW links/instructions are on the webpage

Lesson Hw due Sections Assignment

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

**Thursday September 16 EXAM 1 – 6:30PM (90 minutes) – Lessons 1 to 10**

Fri 11	Tu 9/21	2.6	p110: 1, 3, <b>7, 13, 17, 21, 29, 36, 42, 44, 51, 54, 58, 64, 70, 75, 76, 78, 82, 83, 84</b>
Mon 12	Tu 9/21	2.7	p118: 1, 3, 10, 14, 20, <b>24, 25, 28, 30, 32, 42, 44, 45, 48</b>
Wed 13	Th 9/23	3.1	p130: 5, <b>8, 10, 16, 20, 22, 24, 25, 26, 28, 30, 31, 34</b>
Fri 14	Tu 9/28	3.2	p141: <b>4, 8, 10, 14, 17, 25, 28, 31, 34, 36, 40, 41, 44, 46, 47, 50, 51, 60, 62, 64, 66, 68</b> (For the first 5 problems, also determine all x-axis, y-axis, or origin symmetries that exist.)
Mon 15	Tu 9/28	3.3	p153: <b>16, 18, 20, 21, 25, 27, 30, 32, 36, 38, 42, 44, 47, 48, 52, 53, 56, 58, 60, 61</b>
Wed 16	Th 9/30	3.4	p169: <b>3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16, 20, 24, 25, 26, 28</b>
Fri 17	Tu 10/5	3.4	p169: <b>29, 30, 34, 35, 40, 41, 42, 43, 44, 46, 57, 59, 60, 64, 65, 68a, 70</b>
Mon 18	Tu 10/5	3.5	p181: <b>2, 4, 6, 8, 16, 20, 39</b> abcdefij, <b>40</b> abcde, 41, 43, <b>58, 60</b>
Wed 19	Th 10/7	3.5	p182: <b>39</b> ghkl, <b>40</b> fghijkl, 42, 44, 45, <b>50, 62, 63, 64, 66, 67</b>
Fri 20	Th 10/14	3.6	p192: 7, 10, 12, <b>13, 14, 18, 20, 23, 26, 28, 31, 36</b> (For #13&#14, also determine the domain, range, and increasing/decreasing intervals for f.)
Wed 21	Th 10/14	3.6	p193: 30, 32, 34, <b>39, 44, 45, 48, 49, 50, 53, 54</b>
Fri 22	Tu 10/19	3.7	p202: 1, <b>4, 6, 10, 14, 18, 23, 24, 26, 32, 36, 38, 40</b>
Mon 23	Tu 10/19	3.7&3.8	p204: <b>45, 46, 49, 50, 55, 56, 58, 60</b> p213: <b>3, 6, 8, 9, 14, 19, 20, 22, 24, 39</b>

**Tuesday October 19 EXAM 2 – 6:30PM (90 minutes) – Lessons 11 to 23**

Lesson Hw due Sections Assignment

Wed	24	Th 10/21	3.8&3.9	p214: 26, 28, 29, <b>35, 40, 42</b> p219: 3, <b>4, 6, 12, 13, 14, 16, 17, 20, 21, 22, 24</b>
Fri	25	Tu 10/26	4.1&4.2	p237: <b>2, 4, 12, 15, 18, 20, 24, 26, 30, 34, 40, 41ab, 44</b> p245: <b>2, 4, 5, 8, 50a</b> <b>(For page 237 #12 also determine the domain, range, and increasing/decreasing intervals for <math>f</math>.)</b> <b>(For page 237 #18&amp;#24, also determine whether the function is even, odd, or neither.)</b>
Mon	26	Tu 10/26	4.3&4.5	p256: <b>1, 2, 4, 12, 14, 45</b> p279: <b>1, 2, 3, 6, 12, 14, 16, 18, 22</b>
Wed	27	Th 10/28	4.5	p280: <b>26, 28, 33, 36, 38, 40, 41, 42, 43, 44, 51, 52</b> <b>(For page 280 #28&amp;36 also determine the domain, range, increasing/decreasing intervals, and <math>f(x) &gt; 0</math> intervals for <math>f</math>, additionally determine whether the function is even, odd, or neither.)</b>
Fri	28	Tu 11/2	5.1&5.2	p293: 1, <b>5, 12, 16, 18, 20, 26, 28, 29, 30, 32, 35, 37, 38, 42, 44</b> p302: <b>2, 3, 6, 8, 12, 13, 14, 16</b> <b>(For page 293 #18 also determine the domain, range, and increasing/decreasing intervals for <math>f</math>.)</b>
Mon	29	Tu 11/2	5.2&5.3	p303: 18, 20, 22, 23, 24, 26, <b>28, 30, 32</b> p315: 1ae, 3ae, <b>9ae, 11ae, 14, 16, 18, 25, 24, 26, 28, 30, 32</b>
Wed	30	Th 11/4	5.3&5.4	p316: <b>34, 42, 44, 46, 47, 53, 60, 62, 63, 70, 72</b> p326: <b>1, 4, 6, 7, 8, 9, 11, 13</b> <b>(For page 316 #34d also determine the domain, range, and increasing/decreasing intervals for <math>f</math>.)</b>
Fri	31	Tu 11/9	5.4&5.5	p326: 14, 16, 18, 22, <b>23, 26, 34, 31, 53, 54, 56, 59, 60</b> p336: <b>2, 3, 4, 6, 10, 16, 20, 42, 43, 44</b>
Mon	32	Tu 11/9	5.5&6.1	p337: 12, 49, 50, <b>53, 54, 56, 57</b> p354: <b>2, 4, 5, 8, 9, 10, 14, 22, 24, 25, 28, 17, 18</b>
Wed	33	Th 11/11	6.1&6.2	p354: 30, 31, 32, <b>33, 34, 36, 37ad, 38, 44, 45, 46, 48</b> p369: 1, 4, <b>5, 7, 17, 16</b>
Fri	34	Tu 11/16	6.2	p369: 10, <b>14, 18, 20, 21, 22, 24, 27, 29, 31, 33, 50, 52, 58, 59, 68, 72, 73, 76, 80</b>
Mon	35	Tu 11/16	6.2&6.3	p372: 78, <b>83, 82, 86</b> p388: <b>17, 19, 27, 28, 29, 30, 31, 32, 41, 42, 43, 46, 49, 50, 56, 58, 59, 74</b>

**Tuesday November 16 EXAM 3 – 6:30PM (90 minutes) – Lessons 24 to 35**

Wed	36	Th 11/18	6.4	p397: <b>1, 3, 6, 7, 8, 10, 12, 14, 16, 18, 19, 21, 23, 25, 30, 36acf, 38bde, 41, 43, 44</b>
Fri	37	Tu 11/23	7.2&6.5	p454: <b>1, 2, 3, 4, 5, 6, 7</b> p408: <b>1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28</b> <b>(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 <math>[0, 2\pi)</math> for each problem.)</b>
Mon	38	Tu 11/23	6.5&6.7	p409: <b>32, 38, 41, 42, 43, 44, 46, 52, 53, 54</b> p425: <b>2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 26</b> <b>(On page 425, also draw and label a proportionally correct triangle(s) for each problem.)</b>
Mon	39	Tu 11/30	6.7	p426: 32, <b>33, 34, 39, 41, 43, 44, 45, 46, 47, 48, 50, 51</b> <b>(Also draw and label a proportionally correct triangle(s) for each problem.)</b>
Wed	40	Th 12/2	7.4	p474: 1, <b>2, 3, 4, 5, 6, 7, 8, 9, 10, 48</b>
Fri	41	Tu 12/7	9.1	p570: 2, 3, <b>10, 11, 14, 20, 21, 23, 31, 32, 33, 34, 35, 36, 40</b> <b>(For the first 7 problems, also graph both equations and find the intersections.)</b>
Mon	42	Tu 12/7	9.2, 9.5&11.5	p579: 1, <b>9, 22, 23, 24, 28, 29, 34, 40a</b> p611: 1, 8 p788: <b>1, 2, 3, 4, 6, 9, 10, 12, 45, 46, 47, 48</b> <b>(On page 579 and page 611, use the method of substitution, <u>not elimination or matrices.</u>)</b>
Wed	43	Th 12/9	11.5	p788: 14, 16, 18, <b>28, 30, 31, 37, 38, 49, 52, 56, 58, 62, 64</b>

There will be three **required evening midterm exams** and there is a two-hour final exam during finals week, Monday, December 13 – Saturday, December 18, 2004. The date and time of the final exam will be announced during the semester. **DO NOT PLAN TO LEAVE CAMPUS EARLY. THE SEMESTER DOES NOT END UNTIL SATURDAY, DECEMBER 18 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY WILL NOT BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.**