

**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](http://www.math.purdue.edu/MA15900) NOTE: Online HW links/instructions are on the webpage

Lesson	Hw due	Sections	HW Assignment Problems	
Mon 1	<b>Tu 8/26</b>	1.2	p25: <b>5, 6, 7, 8, 10, 13, 16, 20, 23, 24, 31, 32, 49, 51, 53, 55, 58, 95, 96, 97</b>	Q1 – Th 8/28 Lessons 1 - 2
Wed 2	<b>Th 8/28</b>	1.2&1.3	p25: 36, 37, 41, 42, 45, 59, <b>64, 65, 67, 68, 70, 78, 98, 100</b> p39: 5, 10, 12, 14, 18, 23, 33, 38, 47, 52, <b>56, 58, 62</b>	
Fri 3	<b>Tu 9/2</b>	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 9/2 Lessons 1 - 3
Wed 4	<b>Th 9/4</b>	1.4	p48: <b>11, 14, 26, 41, 42, 45, 46, 56, 57, 65, 67, 69</b>	Q3 – Th 9/4 Lessons 2 - 4
Fri 5	<b>Tu 9/9</b>	1.4&2.1	p48: 47, <b>48, 72, 74, 76, 78</b> p60: 5, 7, 10, 12, 21, 34, 37, 40, 51, 55, 67, 70, 74, 75	
Mon 6	<b>Tu 9/9</b>	2.1&2.2	p60: 44, 72, 73 p70: 1, 4, 8, 10, 11, 14, 16, 17, 19, 27	Q4 – Tu 9/9 Lessons 4 - 6
Wed 7	<b>Th 9/11</b>	2.2	p71: 20, 21, 22, 23, 25, 26, 30, 31	Q5 – Th 9/11 Lessons 5 - 7
Fri 8	<b>Tu 9/16</b>	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	<b>Tu 9/16</b>	2.3&2.4	p84: <b>44, 54, 61, 62, 64, 65, 74, 76, 78</b> p93: 15, 18, <b>36, 38, 39</b>	
<b>Tuesday, September 16 EXAM 1 – 8:00PM (90 minutes) – Lessons 1 to 9</b>				
Wed 10	<b>Th 9/18</b>	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 9/18 Lessons 8 - 10
Fri 11	<b>Tu 9/23</b>	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 9/23 Lessons 10 - 12
Mon 12	<b>Tu 9/23</b>	2.7&3.1	p117: 10, 14, 20, <b>24, 25, 28, 30, 32, 42, 44, 45, 48</b> p128: 5, 8, 10	Q8 – Th 9/25 Lessons 11 - 13
Wed 13	<b>Th 9/25</b>	3.1&3.2	p128: 16, 20, <b>22, 24, 25, 26, 28, 30, 31, 34</b> p138: <b>4, 8, 10, 14, 17</b>	
<b>(For the problems on p138, also determine all x-axis, y-axis, or origin symmetries that exist.)</b>				
Fri 14	<b>Tu 9/30</b>	3.2&3.3	p138: <b>25, 28, 31, 34, 36, 40, 41, 44, 46, 47, 50, 51, 60, 66, 68, 70, 72</b> p151: <b>16, 20, 22</b>	Q9 – Tu 9/30 Lessons 13 - 15
Mon 15	<b>Tu 9/30</b>	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 10/2 Lessons 14 - 16
Wed 16	<b>Th 10/2</b>	3.4	p167: 9, 10, 11, 12, 14, 19, 20, 24, 28, 29, 30, 32, 40, <b>41, 46</b>	Q11 – Tu 10/7 Lessons 16 - 18
Fri 17	<b>Tu 10/7</b>	3.4&3.5	p168: <b>35, 36, 49, 50, 51, 52, 54, 65, 67, 68, 72, 73, 76a, 78</b> p181: <b>4, 6, 8, 10, 18, 41cd</b>	
Mon 18	<b>Tu 10/7</b>	3.5	p181: <b>22, 41abefhijk, 42abcde, 43, 44, 60, 62</b>	Q12 – Th 10/9 Lessons 17 - 19
Wed 19	<b>Th 10/9</b>	3.5	p182: <b>41gl, 42fghijkl, 45, 46, 47, 52, 64, 65, 68, 69</b>	
Fri 20	<b>Th 10/16</b>	3.6	p192: 7, 10, 12, <b>13, 14, 18, 20, 23, 26, 30, 33, 38</b>	
<b>(For #13&amp;#14, also determine the domain, range, and increasing/decreasing intervals for f.)</b>				
Wed 21	<b>Th 10/16</b>	3.6	p193: 32, 34, 36, 41, 46, 47, 50, 51, 52, 55, 56	

**Thursday, October 16 EXAM 2 – 8:00PM (90 minutes) – Lessons 9 to 21**

Lesson Hw due Sections HW Assignment Problems

Fri 22 Tu 10/21 3.7 p203: 1, 4, 6, 10, 14, 18, 23, 24, 26, 32, 36, 38, 40

Mon 23 Tu 10/21 3.7&4.1 p204: 45, 46, 49, 50, 55, 56, 58, 60

p219: 2, 4, 14, 17, 20, 22, 26

Q13 – Tu 10/21  
Lessons 21 - 23

(For page 220 #14 also determine the domain, range, and increasing/decreasing intervals for  $f$ .)

(For page 220 #20&#26, also determine whether the function is even, odd, or neither.)

Wed 24 Th 10/23 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

Fri 25 Tu 10/28 4.5 p263: 10, 16, 18, 20, 22, 26, 30, 37, 42, 45, 46

Mon 26 Tu 10/28 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

Wed 27 Th 10/30 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 11/4 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

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

Mon 29 Tu 11/4 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 11/6 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 11/6  
Lessons 28 - 30

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

Fri 31 Tu 11/11 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

Mon 32 Tu 11/11 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 11/13 6.1&6.2 p356: 30, 31, 32, 33, 34, 36, 37ad, 38, 46, 47, 48, 50

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

Fri 34 Tu 11/18 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 11/18 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 – Tu 11/18  
Lessons 33 - 35

Wed 36 Th 11/20 6.4 p399: 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 – 8:00PM (90 minutes) – Lessons 20 to 36**

Fri 37 Tu 11/25 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 11/25  
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 11/25 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 12/2  
Lessons 37 - 39

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

Mon 39 Tu 12/2 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 12/4 7.4 p473: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 50

Fri 41 Tu 12/9 9.1 p570: 2, 3, 10, 11, 14, 20, 21, 23, 32, 33, 34, 36, 39, 40, 44

Q24 – Th 12/4  
Lessons 38 - 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

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 12/11 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 15 – Saturday, December 20, 2008. The date and time of the final exam will be announced during the

semester. THE SEMESTER DOES NOT END UNTIL SATURDAY, DECEMBER 20 AT 9:00 PM. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **WILL NOT** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.