**MA 151** **Assignment Sheet** **Spring 2003**

**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 1/14 | 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 1/16 | 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 1/21 | 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 1/23 | 1.4 | p48: 11, 14, 26, 41, 42, 45, 46, 50, 52, 56, 57, 65, 67 |
| Fri 5 | Tu 1/28 | 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 1/28 | 2.1&2.2 | p61: 44, 68, 69, 70, 71 |
| | | | p71: 1, 4, 6, 8, 9, 12, 14, 15, 17 |
| Wed 7 | Th 1/30 | 2.2 | p72: 18, 19, 20, 21, 23, 24, 25, 28 |
| Fri 8 | Tu 2/4 | 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 2/4 | 2.3 | p84: 33, 36, 44, 48, 50, 57, 58, 60, 61, 70, 72, 74 |
| Wed 10 | Th 2/6 | 2.4 | p94: 3, 8, 12, 15, 18, 19, 22, 30, 35, 36, 38, 39, 46, 48, 50, 52, 53 |

# Thursday February 6 EXAM 1 – 8:30PM (90 minutes) – Lessons 1 to 10

| | | | |
|---|---|---|---|
| Fri 11 | Tu 2/11 | 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 2/11 | 2.7 | p118: 1, 3, 10, 14, 20, 24, 25, 28, 30, 32, 42, 44, 45, 48 |
| Wed 13 | Th 2/13 | 3.1 | p130: 5, 8, 10, 16, 20, 22, 24, 25, 26, 28, 30, 31, 34 |
| Fri 14 | Tu 2/18 | 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 2/18 | 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 2/20 | 3.4 | p169: 3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16, 20, 24, 25, 26, 28 |
| Fri 17 | Tu 2/25 | 3.4 | p169: 29, 30, 34, 35, 40, 41, 42, 43, 44, 46, 57, 59, 60, 64, 65, 68a, 70 |
| Mon 18 | Tu 2/25 | 3.5 | p181: 2, 4, 6, 8, 16, 20, 39abcdefij, 40abcde, 41, 43, 58, 60 |
| Wed 19 | Th 2/27 | 3.5 | p182: 39ghkl, 40fghijkl, 42, 44, 45, 50, 62, 63, 64, 66, 67 |
| Fri 20 | Tu 3/4 | 3.6 | p192: 7, 10, 12, 13, 14, 18, 20, 23, 26, 28, 31, 36 |
| | | | **(For #13&#14, also determine the domain, range, and increasing/decreasing intervals for *f*.)** |
| Mon 21 | Tu 3/4 | 3.6 | p193: 30, 32, 34, 39, 44, 45, 48, 49, 50, 53, 54 |
| Wed 22 | Th 3/6 | 3.7 | p202: 1, 4, 6, 10, 14, 18, 23, 24, 26, 32, 36, 38, 40 |
| Fri 23 | Tu 3/11 | 3.7&3.8 | p204: 45, 46, 49, 50, 55, 56, 58, 60 |
| | | | p213: 3, 6, 8, 9, 14, 19, 20, 22, 24, 39 |
| Mon 24 | Tu 3/11 | 3.8&3.9 | p214: 26, 28, 29, 35, 40, 42 |
| | | | p219: 3, 4, 6, 12, 13, 14, 16, 17, 20, 21, 22, 24 |

| Lesson | Hw due | Sections | Assignment |
|---|---|---|---|
| Wed 25 | Th 3/13 | 4.1&4.2 | p237: 2, 4, 12, 15, 18, 20, 24, 26, 30, 34, 40, 41ab, 44<br>p245: 2, 4, 5, 8, 50a<br>**(For page 237 #12 also determine the domain, range, and increasing/decreasing intervals for *f*.)**<br>**(For page 237 #18&#24, also determine whether the function is even, odd, or neither.)** |

## Thursday March 13 EXAM 2 – 8:30PM (90 minutes) – Lessons 11 to 25

| | | | | |
|---|---|---|---|---|
| Fri | 26 | Tu 3/25 | 4.3&4.5 | p256: 1, 2, 4, 12, 14, 45<br>p279: 1, 2, 3, 6, 12, 14, 16, 18, 22 |
| Mon | 27 | Tu 3/25 | 4.5 | p280: 26, 28, 33, 36, 38, 40, 41, 42, 43, 44, 51, 52<br>**(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.)** |
| Wed | 28 | Th 3/27 | 5.1&5.2 | p293: 1, 5, 12, 16, 18, 20, 26, 28, 29, 30, 32, 35, 37, 38, 42, 44<br>p302: 2, 3, 6, 8, 12, 13, 14, 16<br>**(For page 293 #18 also determine the domain, range, and increasing/decreasing intervals for *f*.)** |
| Fri | 29 | Tu 4/1 | 5.2&5.3 | p303: 18, 20, 22, 23, 24, 26, 28, 30, 32<br>p315: 1ae, 3ae, 9ae, 11ae, 14, 16, 18, 25, 24, 26, 28, 30, 32 |
| Mon | 30 | Tu 4/1 | 5.3&5.4 | p316: 34, 42, 44, 46, 47, 53, 60, 62, 63, 70, 72<br>p326: 1, 4, 6, 7, 8, 9, 11, 13<br>**(For page 316 #34d also determine the domain, range, and increasing/decreasing intervals for *f*.)** |
| Wed | 31 | Th 4/3 | 5.4&5.5 | p326: 14, 16, 18, 22, 23, 26, 34, 31, 53, 54, 56, 59, 60<br>p336: 2, 3, 4, 6, 10, 16, 20, 42, 43, 44 |
| Fri | 32 | Tu 4/8 | 5.5&6.1 | p337: 12, 49, 50, 53, 54, 56, 57<br>p354: 2, 4, 5, 8, 9, 10, 14, 22, 24, 25, 28, 17, 18 |
| Mon | 33 | Tu 4/8 | 6.1&6.2 | p354: 30, 31, 32, 33, 34, 36, 37ad, 38, 44, 45, 46, 48<br>p369: 1, 4, 5, 7, 17, 16 |
| Wed | 34 | Th 4/10 | 6.2 | p369: 10, 14, 18, 20, 21, 22, 24, 27, 29, 31, 33, 50, 52, 58, 59, 68, 72, 73, 76, 80 |
| Fri | 35 | Tu 4/15 | 6.2&6.3 | p372: 78, 83, 82, 86<br>p388: 17, 19, 27, 28, 29, 30, 31, 32, 41, 42, 43, 46, 49, 50, 56, 58, 59, 74 |
| Mon | 36 | Tu 4/15 | 6.4 | p397: 1, 3, 6, 7, 8, 10, 12, 14, 16, 18, 19, 21, 23, 25, 30, 36acf, 38bde, 41, 43, 44 |
| Wed | 37 | Th 4/17 | 7.2&6.5 | p454: 1, 2, 3, 4, 5, 6, 7<br>p408: 1cdf, 3egh, 6, 7, 10, 12, 16, 21, 26, 28<br>**(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.)** |
| Fri | 38 | Tu 4/22 | 6.5&6.7 | p409: 32, 38, 41, 42, 43, 44, 46, 52, 53, 54<br>p425: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 25, 26<br>**(On page 425, also draw and label a proportionally correct triangle(s) for each problem.)** |
| Mon | 39 | Tu 4/22 | 6.7 | p426: 32, 33, 34, 39, 41, 43, 44, 45, 46, 47, 48, 50, 51<br>**(Also draw and label a proportionally correct triangle(s) for each problem.)** |
| Wed | 40 | Th 4/24 | 7.4 | p474: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 48 |

## Thursday April 24 EXAM 3 – 8:30PM (90 minutes) – Lessons 26 to 40

| | | | | |
|---|---|---|---|---|
| Fri | 41 | Tu 4/29 | 9.1 | p570: 2, 3, 10, 11, 14, 20, 21, 23, 31, 32, 33, 34, 35, 36, 40<br>**(For the first 7 problems, also graph both equations and find the intersections.)** |
| Mon | 42 | Tu 4/29 | 9.2, 9.5&11.5 | p579: 1, 9, 22, 23, 24, 28, 29, 34, 40a<br>p611: 1, 8<br>p788: 1, 2, 3, 4, 6, 9, 10, 12, 45, 46, 47, 48<br>**(On page 579 and page 611, use the method of substitution, <u>not</u> <u>elimination or matrices</u>.)** |
| Wed | 43 | Th 5/1 | 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, May 5 – Saturday, May 10, 2002.