

PRE-CALCULUS

MATH 1080, ID #1966501, Summer 2001

Prerequisite: Math 1010 with a grade of C or better, or ACT with score of 23 or higher, or Placement Test.

Text: Precalculus by Michael Sullivan, Fifth Edition, Prentice Hall, 1999

Class Meetings: MTWTH 9:45-11:10, B4, Rm. 508

Instructor and Office Hours: Dr. Afshin Ghoreishi, B4 Rm. 503D, <http://www.weber.edu/aghoreishi/>, MW 9:00-9:45, T 11:10-11:45. At other times you can probably find me in my office or room 502D. You can also see me by making an appointment.

General Instructions

Learning Mathematics: One learns mathematics by doing it. Struggling is a part of learning. There is no substitute for working on and solving problems on your own.

Reading a Mathematics Book: Read mathematics books with a scratch paper and a pencil close by. Use them to work through the parts left for the reader to figure out and/or redoing the parts that are not clear. Do not expect to fully master every topic in the first reading.

Writing Mathematics: Mathematics, like English, requires proper use of grammar. The process of learning a topic and accurately communicating that knowledge are intimately related. The objective is not just to find the answer to problems but also to communicate the work involved through writing.

Getting Ready for a Test: In addition to studying homework problems, class notes and sample tests, you should develop a set of short notes and sample problems on each topic. Develop these notes after learning each topic. Use your notes as a reference and review them before a test. This technique will solve the problem of forgetting or confusing things on the tests and will enable you to attain that higher grade which you deserve.

Specific Instructions

Procedures: I will try to answer a few questions at the beginning of each class, but this time will be limited. Prepare for each class by working on prior homework and reading the textbook ahead of time. You are encouraged and expected to read the book on your own. Utilize office hours and other sources of tutoring.

We will have weekly homework quizzes, two 1-hour exams and a comprehensive 2-hour final exam. ***Do not enter the class late & do not come to class if you have to leave early.*** Turn off pagers, cell phones and other such disruptive devices.

Homework Quizzes: A problem list is attached. To be successful in this class you should be able to solve all of them. Every Thursday we will have a short open note (but closed book) homework quiz. I will announce the sections on the quiz in Tuesday. The quiz problems will be chosen from the attached problem list. Quiz solutions will be posted on the cork board outside my office. No quiz will be given in a week that there is an exam.

Exams: Exams will not be multiple choice. The first two exams will be administered in the Student Service Testing Center while the final exam will be conducted in class. The hours of operation for the Student Service Testing Center, SC 269, are MTTH 7:30 am - 5:30 pm and W 7:30 am - 7:00 pm. Sample tests will be available from my web site: <http://www.weber.edu/aghoreishi/>.

1st Exam	Mon June 11 - Tue June 12
2nd Exam	Mon July 16 - Tue July 17
Final	Thu August 2, In Class

Grading: You will be given the opportunity to replace your lowest homework quiz grade with your grade on a special assignment at the end of the semester.

1-hour exams; 100 points each	200 points
Homework Quiz	100
Final	200

Total	500 points

Exams will be curved as needed, but a minimum standard will be retained regardless of the performance of the class.

Miscellaneous Information

Other Important Dates:

Memorial Day Holiday	May 28
Last day to cancel	May 30
Last day to drop with a grade of W	Jun 27
Independence Day Holiday	Jul 4
Pioneer Day Holiday	Jul 24

If you decide to drop this class, please inform me of your decision.

EXTRA HELP: The following is a list of some (not all) sources of extra help.

1. Math Tutoring Lab, Rm. 164 Student Services Center. Hours will be posted.
2. Supplemental Instruction. SI schedule, if any, will be posted.
3. Student Support Services, Rm. 279 Student Services Center (one-on-one tutoring).
4. Tutoring Services, Rm. 265 Student Services Center.

Course Coverage and Problem List for Pre-Calculus	
Note: You should be able to solve all homework problems not just the ones listed below.	
Section	Homework Quiz Problems
1.4	13, 15, 21, 22, 25, 31, 33, 34, 37, 39-41, 51-59(odd), 54, 66, 67, 69, 71, 73, 74, 81, 84
2.1	7, 9, 10, 13, 14, 21-30, 34, 35, 42, 43-53(odd), 57-59, 63, 81, 85(a, b)
2.2	1-10, 13, 23, 24, 27, 28, 35, 39-42, 45, 51-53, 55, 59-61, 69, 71
2.3	1-3, 5-9(odd), 13-22, 25, 31-33, 43, 55, 58, 63, 64
2.4	1, 2, 9, 13, 14, 23, 31, 33, 37, 38, 41, 51, 55, 57, 63, 64
3.1	1-9(odd), 8, 13, 14, 17, 19, 25, 27, 31, 33, 34, 39-41, 47, 51, 52
3.2	1-11(odd), 10, 15, 16, 19, 21, 23, 24, 27, 33, 35, 39, 41, 43, 44, 49, 51, 55, 56
3.3	1-47(odd), 4, 10, 18, 24, 38, 44, 75-77
4.1	5, 9-16, 21, 22, 25, 27, 31, 33-35, 41, 43-45, 49, 57-60

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Section	Homework Quiz Problems
4.2	1, 5, 6, 11-23(odd), 12, 27, 28, 31-33, 37, 38, 47, 49, 55, 56
4.3	1, 3, 5, 7, 8, 13, 15, 17-19, 25-39(odd), 28, 32, 38, 43, 45, 49-65(odd), 71
4.4	1-17(odd), 6, 14, 23, 25-27, 33, 37-39, 45, 47, 57, 59, 63, 64, 67
4.5	1, 2, 5, 9, 11, 12, 15, 19, 23-25, 27-29, 33, 37, 39, 41, 42, 45, 47, 51, 55
4.6	1, 3-5, 11-13, 15, 25, 31, 35, 36, 39, 43-45, 49
4.7	1-4, 7, 9, 11, 12, 23, 24
5.1	1-37(odd), 14, 28, 38, 43, 45-47, 53-55, 61, 73, 77, 81, 82, 89, 90
5.2	1-3, 7, 11, 15, 21, 22, 25, 27, 31, 33, 35, 39, 41, 43, 44, 47, 51, 52, 55, 59, 63, 67, 71, 73, 75, 85, 86, 89, 97, 98
5.3	1, 7, 13, 17-25(odd), 22, 26, 29, 33, 35, 36, 43-61(odd), 67, 71, 79, 80, 83-95(odd), 96-101, 102
5.4	1-47(odd), 2, 14, 38, 58, 57, 59, 65, 67, 77, 78
5.5	1-9, 10, 21-24, 27-41(odd), 28, 34, 63, 69-72
5.6	1-19(odd), 6, 27, 29, 37, 38, 41, 45, 51-53, 55, 59, 63, 67, 71-74
6.1	1-75(multiples of 3), 2, 14, 34, 58
6.2	1, 2, 5, 13, 14, 17, 21-31(odd), 24, 32, 36-54(multiples of 3), 57, 58, 61
6.3	1-3, 5, 7, 13, 15-17, 19, 30-60(multiples of 3)
6.5	1-25(odd), 8, 16, 26, 29, 33, 37, 53, 54, 57, 61, 65, 77, 81, 83, 84, 87, 91, 95, 96, 99, 103
6.6	3-36(multiples of 3), 14, 45, 49, 51-53, 55
7.1	1, 5, 6, 9, 13-21(odd), 16, 22, 25-37(odd), 34, 38, 43, 47
7.2	1-23(odd), 2, 10, 18, 22, 31-41(odd), 40
7.3	1-9(odd), 4, 10, 13, 17, 21, 25-27, 29, 31-33, 36
8.1	1-73(odd), 4, 10, 22, 32, 50, 58, 72
8.2	1-25(odd), 4, 20, 22, 26, 30-51(multiples of 3), 34, 46
8.4	1-53(odd), 6, 12, 22, 28, 36, 42, 50
9.1	
9.2	1-9(odd), 4, 15-48(multiples of 3), 22, 55, 56
9.3	1, 3, 5, 6, 9, 13-35(odd), 32, 34, 41-47(odd), 42, 63-65, 71
9.4	1-15(odd), 6, 16, 19, 23-43(odd), 30, 44, 57

Course Coverage and Problem List for Pre-Calculus	
Note: You should be able to solve all homework problems not just the ones listed below.	
Section	Homework Quiz Problems
10.1	1-3, 11, 15, 19, 20, 23, 24, 33-41(odd), 34, 36, 55-61(odd), 60
10.2	1-45(odd), 4, 14, 30, 53-59(odd), 54, 56, 71, 73, 75
10.4	1-11(odd), 12, 17-23(odd), 18, 27, 28, 31, 35, 43, 46
10.6	3-52(multiples of 3), 55, 60, 72, 77, 83, 86
11.1	1-27(odd), 4, 16, 24, 35-41(odd), 40, 47, 49, 57, 59-61
11.2	1, 3, 5, 11-13, 15, 16, 19-39(odd), 24, 40, 49, 60
11.3	1, 3, 5, 11, 13-15, 25-43(odd), 26, 36, 50, 51, 53, 55, 57, 63, 65, 67
11.6	1-29(odd), 6, 14, 24, 30, 35, 36
11.7	1-17(odd), 2, 10, 27-57(multiples of 3), 28, 38
11.8	1-6, 7-19(odd), 22, 23, 25-28, 37-39