

Tufts University
Department of Mathematics
Math 5 (Introduction to Calculus)

Spring 2005

Text: *Brief Calculus & its Applications, 10th Edition* by Goldstein, Lay, and Schneider.

This course will cover the basic principles of differential and integral calculus. There will be three in-term exams and a final:

Exam 1: Monday, February 14, 12:00-1:20 p.m.

Exam 2: Monday, March 7, 12:00-1:20 p.m.

Exam 3: Monday, April 4, 12:00-1:20 p.m.

Final Exam: Monday, May 9, 8:30-10:30 a.m.

No calculators will be allowed in the exams. You must show your work to receive full credit for an answer. You are required to sign your exam book. With your signature you pledge that you have neither given nor received assistance on the exam. Students found violating this pledge will receive an F for the course and will be reported to the Dean of Students.

There will be no make-ups for the three in-term exams.

If you miss one for whatever reason, its score will be the one dropped in determining your final grade (see below).

Homework: The only way to learn mathematics is by solving problems! There is a homework assignment for each lesson of the course. You will receive one point if the homework you hand in contains correct answers, showing your work, to at least $2/3$ of the exercises. You may talk with friends and/or your instructor and you may check your answers using the back of the book when doing your homework. The solutions that you hand in must, however, be written in your own words. If you have $n > 21$ homework points at the end of the semester, then $(n - 21)/10$ points will be added to your final average (see below). Homework is due at the beginning of the class following the lesson to which it corresponds. Note that the graders will not read your solutions as carefully as we will read your exams; expect us to be more demanding on the exams.

Your Grade: We will make a list of five numbers. The first three will be your scores on the three in-term exams and the last two will both equal your score on the final. We will then delete the lowest of these five numbers. Your grade will be the average of the four remaining numbers, to which we will then add the bonus you have earned from doing homework problems.

Important: Math 5 is not adequate preparation for Math 12. Engineers cannot take Math 5 for credit. No student can take both Math 5 and Math 11 for credit. If you are not sure if Math 5 is the right course for you, please seek advice from your instructor.

MATH 5 HOMEWORK ASSIGNMENTS, SPRING 2005

No.	Sec.	Assignment
1	0.1-0.2	p.15: 7,10,23,25,31-42; p. 26: 12,29,32,38
2	0.3-0.4	p.31: 7,17,24,25,28; p.39: 3,10,14,24,27,36
3	0.5 & 1.1	p.46: 16,17,22,24,37,44,50,59,69,71,73,74; p.76: 10,12,16,23,27,58,61
4	1.2-1.3	p.82: 7,10,13-18,26,33,35; p.91: 6,7,9,13,19,28,33,38,45,57
5	1.4-1.5	p.102: 1-8,17-20,51-54; p.108: 16,20-22
6	1.6-1.7	p.114: 5,7,14,28,38,44,51,55; p.120: 7,13,18,25
7	1.8	p.129: 4,5,11,13,15,16,18,19ad,21
8	2.1	p.145: 1-4,17,19-22,35-37
9	2.2	p.155: 6,7,10,15,24,39,40
10	2.3	p.164: 2,13,23,33,36

First exam: Monday, February 14, 12:00 - 1:20 p.m.

11	2.4	p.171: 8,18,19,23,25,31,32
12	2.5	p.180: 3,5,11,12,24,27
13	2.5	p.180: 10,13,16,23; p.191: 21
14	3.1	p.214: 7,11,17,23,24,31,35,42,45,51,55,60
15	3.2	p.221: 11,18,29,30,35,38,43,46,59
16	3.3	p.231: 3,5,13,14,22,26; p.236: 42
17	3.3	p.232: 35,37,44,45,46,47

Second exam: Monday, March 7, 12:00 - 1:20 p.m.

18	4.1-4.2	p.241: 5,21,22,25,27,28,32,35; p.246: 19,21,23,30; p. 267: 38
19	4.3	p. 251: 5,13,14; p. 267: 33,34,97,98
20	4.4-4.5	p. 256: 7,9,11,15,18,23,25,29; p.260: 5,6,7,14,24
21	4.6	p.265: 2,5,7,13,15; p.267: 75,84,91,92
22	5.1	p.275: 3,6,8,16,19,25
23	5.2	p.47: 87,91,93; p.283: 7,9,11,14,19

Spring Break: March 19 - March 27

24	6.1	p.315: 5,9,25,28,32,35,36,45,46
25	6.2	p.325: 11,12,17,21

Third exam: Monday, April 4, 12:00 - 1:20 p.m.

26	6.3	p.336: 2,7,10,12,14,15,19,23
27	6.3	p.336: 25,27,31,32,35,38,39a,48,49
28	6.4	p.346: 6,11,14,15,18,20,21
29	6.5	p.381: 29,31,32,45; p. 357: 29,32,35,36
30	6.6	p.365: 3,6,11,14,17,18,19,20,37
31	6.6	p.366: 21,23,24,25,28,29,39,41,45
32	6.7	p.372: 5,11,13,16,17,21,26,35,37,43
33	8.1-8.2	p.452: 1,3,5,6,12; p.458: 3,7,9,12,25,28,33,34
34	8.3	p.467: 1,3,6,8,10,11,14,15,16,27,28,34
35	8.3	p.467: 35-38,44; p.476: 52,53
36	8.4	p.473: 4,5,17,23,28,31,33a,35,37; p.477: 79