

Time: MWRF 1:10 – 2:00
Classroom: MWF – CHB 305, R – CHB 306
Instructor: Dr. Sankar Sitaraman
Office: ASB-B 219
Office Hours: daily 12.10–1 (subject to change), or by appointment, or by email.
I check my email pretty often and try to respond quickly.
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Textbook: *Thomas' Calculus (Early Transcendentals)*, 12th ed.,
by G.B. Thomas, M.D. Weir, and J. Hass
ISBN-13: 978-0-321-58876-0 (full version), 978-0-321-62883-1 (single variable)

Grading

- Quizzes (and Homework, if any) – 200
- Best 2 of 3 tests – 200
- Final Exam – 200

List of Topics: In Calculus I, we will start the calculus sequence and cover limits, continuity and derivative (differentiation) and their applications. We will also start integrals and integration, which will be covered more fully in Calculus II.

Quizzes will be given about once a week in class. Quiz dates are on bottom of Course page. Quiz problems will usually be taken out of homework for the period of the preceding week. There will be no makeups. At least Three (3) lowest quiz grades will be dropped. You may find it useful to do homework in groups of 2-5 people, so that there is give-and-take within each group. If you only give or only take (especially, the latter!), you are in the wrong group. Make sure you understand solutions of all homework problems, even those you did not solve on your own.

In-class Tests The schedule of these tests is also given on course page (they will be roughly after each third of the semester). The lowest of the three test grades will be dropped. There will be no makeups.

Final Exam is a departmental final: the same exam is given to all sections of Calculus I. This is usually on the first Tuesday after the last week of classes (this semester, December 4), 4-6pm.

Homework assignments are given on the course page on Blackboard. (Your Blackboard login is your Howard ID without the @ sign, and your initial password is your initial Bison Web password, usually your six-digit birthdate.) Once you are on the course page, look under Information tab on the left. The homework should be done regularly but is not to be turned in unless explicitly stated. Also see below.

Math Department's Past Final Exams Page contains some final exams from previous years. See http://www.coas.howard.edu/mathematics/resources_pastfinal exams.html .

Calculator Policy: On quizzes and in-class exams, you may only use calculator functions contained in the standard PC calculator program. Those functions would be referred to as “simple arithmetic.” Among other things, this certainly does *not* include functions that store formulas, solve equations or plot graphs.

Homework

The assignments below may be augmented or adapted at the instructor's discretion.

Chapter 1

1.1: 3, 6, 7, 8, 9, 12, 15, 21, 27, 30, 32, 36, 45, 54

1.2: 2, 3, 6, 9, 12, 13, 15, 18, 21, 24, 27, 36, 45, 54, 57

1.3: 3, 6, 9, 12, 15, 18, 21, 33, 51, 54

1.5: 3, 6, 9, 12, 15, 18, 21, 22, 30, 33, 36

1.6: 1-6, 9, 12, 13, 15, 18, 21, 24, 27, 30, 36, 39, 43

Prac. Ex. p. 53: 3-69 (every 3rd), 81

Chapter 2

2.1: 3, 6, 9, 12, 15, 21

2.2: 3, 6, 9, 12, 21, 24, 30, 36, 45, 48, 54, 57, 78, 80

2.3: 3, 9, 12, 15, 20, 25, 30, 35, 45, 48, 49, 54

2.4: 1, 3, 6, 9, 12, 15, 18, 20, 21, 24, 27, 35, 40, 45, 49

2.5: 1-4, 6, 9, 12, 15, 18, 21, 27, 30, 33, 36, 29, 42

2.6: 1, 6, 12, 21, 33, 44, 50, 55, 60, 65, 70, 80, 90, 100

Prac. Ex. p. 117: 1, 3-54 (every 3rd)

Chapter 3

3.1: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36

3.2: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 32, 36, 39, 42

3.3: 3, 6, 9, 15, 18, 27, 36, 45, 54, 63, 70

3.4: 3, 6, 9, 12, 15, 18, 21, 24, 28, 31

3.5: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 61

3.6: 5, 11, 22, 33, 44, 55, 66, 77, 84, 88, 92, 97

3.7: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

3.8: 1-4, 9, 18, 27, 36, 45, 54, 63, 72, 81, 90, 99

3.9: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55

3.10: 5, 10, 15, 15, 20, 25, 30, 34, 39, 40

3.11: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 64

Prac. Ex. p. 213: 3-153 (every 3rd)

Chapter 4

4.1: 3, 6, 9, 12, 18, 27, 36, 42, 50, 54, 63, 72, 75, 78

4.2: 3, 6, 9, 12, 17, 24, 27, 30, 33, 36, 42, 45, 48, 51, 54, 60

4.3: 9, 18, 27, 36, 45, 54, 63, 69, 72, 78, 80

4.4: 3, 6, 9, 11, 22, 33, 44, 47, 55, 66, 77, 81, 90, 99, 108

4.5: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75

4.6: 3, 5, 10, 12, 16, 20, 25, 30, 35, 40, 45, 50, 55, 60

4.7: 3, 6, 9, 12, 16, 18, 21, 24, 28

4.8: 5, 10, 15, 20, 25, 33, 44, 55, 66, 77, 88, 99, 110, 121

Prac. Ex. p. 289: 3-129 (every 3rd)

Chapter 5

5.1: 3, 6, 9, 12, 15, 18, 21

5.2: 5, 10, 15, 20, 25, 30, 35, 40, 45

5.3: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 75

5.4: 9, 18, 27, 36, 40, 45, 54, 60, 63, 66, 72, 75, 81

5.5: 3, 9, 18, 27, 36, 45, 54, 63, 72, 79

5.6: 5, 11, 22, 33, 44, 55, 60, 66, 77, 84, 88, 99, 110

Prac. Ex. p. 354: 1, 3-132 (every 3rd)

Chapter 7

7.1: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

Look at old exams online