

M2554 MIDTERM EXAM STUDY GUIDE-Spring, 2015
TEXT: CALCULUS-Early Transcendentals by Briggs & Cochran

To the student of M2554: Below is a list of problems that will help you prepare more efficiently for your Midterm Exam. You should consider each problem to be representative of a TYPE that may occur on the exam. The time constraint will not permit that each section listed will have at least one representative on the exam, but you should prepare for each type of problem listed.

Section 2.1: The Idea of Limits & Section 2.2: Definitions of Limits

There will be no problems on the exam from these sections

Section 2.3: Techniques for Computing Limits

Pages 73-74: #'s 1-48, 56-65

Section 2.4: Infinite Limits

Pages 82-83: #'s 15-26, 37-39

Section 2.5: Limits at Infinity

Pages 92-93: #'s 9-30, 38-46, & 52-53

Section 2.6: Continuity

Pages 103-104: #'s 9-44

Section 2.7: Precise Definitions of Limits

There will be no problems on the exam from this section.

Section 3.1: Introducing the Derivative

Page 132: #'s 11-32

Section 3.2: Rules of Differentiation

Pages 142-143: #'s 7-49

Section 3.3: The Product and Quotient Rules

Pages 152-153: #'s 7-57

Section 3.4: Derivatives of Trigonometric Functions

Pages 161-162: #'s 1-55

Section 3.5: Derivatives as Rates of Change

Pages 171-172: #'s 11-20, 26-27

Section 3.6: The Chain Rule

Pages 180-181: #'s 7-44

Section 3.7: Implicit Differentiation

Page 189: #'s 5-46