MATH 141 (§§4 & 5)
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Homework Problems for Chapter 5
The Integral

Section	Page	Problems
5.1	223	# 2, 3, 6, 7, 10, 11, 15, 19, 21, 23, 26, 28, 33, 36, 43, 45, 50
		Concepts Review: # 1–4
5.2	231	# 2, 3, 5, 7, 10, 21, 22
		Concepts Review: # 1–3
5.3	238	# 1, 2, 4, 7, 8, 9, 12, 16, 19, 21, 24, 25, 28, 30
		Concepts Review: # 1–4
5.4	245	# 1, 2, 3, 5, 6, 7, 11, 12, 17
		Concepts Review: # 1–3
5.5	253	# 1, 2, 7, 9, 10, 17, 20, 21
		Concepts Review: # 1–4
5.6	260	# 2, 3, 4, 5, 7, 10, 11, 15, 16, 17, 24, 25, 27, 31, 34, 37, 40
		Concepts Review: # 1–4
5.7	268	# 3, 5, 9, 12, 15, 17, 21, 27, 29, 30, 35
		Concepts Review: # 1–4
5.8	275	# 1, 4, 5, 8, 9, 13, 16, 17, 21, 22, 27
		Concepts Review: # 1–2
Review	277	Concepts Test: # 1–5, 8, 11, 12, 20
		Sample Test Problems: # 1–7, 10, 16-19, 21, 23, 25, 30

Notes

- The assigned problems represent a wide level of difficulty. Many are routine problems. In addition, you will also find *i)* applications that require you to find and solve an appropriate formulation of the problem, *ii)* multi-step problems that involve the use of several different ideas and techniques (possibly in new combinations), *iii)* problems that involve parameters with unspecified values, and *iv)* problems that require careful understanding (and re-reading) of the general results that have been developed.

- Each chapter concludes with an extended collection of review problems. These problems — both the Concepts Test and the Sample Test Problems — are ideally suited for review before an exam.

- If you need more practice, there are many other problems in the text that are similar to the ones I have assigned. Also, the Mathematics Library (LeConte, third floor) has a collection of Calculus textbooks. These can be a great resource for students needing additional practice.

- Do not hesitate to ask questions – in class, in recitation, by e-mail, during office hours, or in the Math Lab.

- The third exam will be given in class on Friday, March 28. All material through §5.3 will be on the exam. Wednesday, March 26, will be reserved for answering as many of your questions as possible. Begin your preparations early enough to come to class with a few good questions.