Math 1134 Homework

In order to succeed in this course, you need to get into a regular pattern of completing your homework in a timely manner. Working at the math center on a regular basis is a great way to get your questions answered and to get to know other students in the class. A pattern of hard work established early on makes success much more likely. **Additional review problems will be found at the end of each chapter if you want more practice.**

EXAM 1 Material:

Section	Title	Page	Problems
7.1	Area Between Curves	p. 454	1-51 odd, 69, 75, 77, 85, 96, 103, Review Problem Set
7.2	Volume: The Disk Method	p. 465	1-53 odd, 57, 59, 71-73 all, Demonstration
7.3	Volume: The Shell Method	p. 474	1-33 odd, 45 – 51 odd, 63, Volumes W.S., Area and Volumes Lab
7.4	Arc Length and Surfaces of Revolution	p. 485	1-31 odd, 37-47 odd, 57, 66, 67, W.S., Demonstration
7.5	Work	p. 495	1-41 odd, Volume and Work Problems
7.6	Moments, Centers of Mass, and Centroids	p. 506	1-29 odd, 45, 47
7.7	Fluid Pressure and Fluid Force	p. 513	1-27 odd, Exam 1 Review Sheet

EXAM 2 Material

Section	Title	Page	Problems
8.1	Basic Integration Rules	p. 524	1-51 odd, 59-89 odd, 83-86 all, 87, 90, 97
8.2	Integration by Parts	p. 533	1-37 odd, 49-73 odd, 78, 83, 91, 95, 103, IBP Practice W.S.
8.3	Trigonometric Integration	p. 542	5-17 odd, 25-41 odd, 51-73 odd, 95, W.S., Demonstration
8.4	Trigonometric Substitution	p. 551	1-15 odd, 21-51 odd, 73, 75, 81
8.5	Partial Fractions	p. 561	1-31 odd, 35, 41-49 odd, 67
8.6	Integration by Tables and Other Techniques	p. 567	1-49 odd, 63-69 odd, 78, 79
8.8	Improper Integrals	p. 587	1-53 odd, 59-69 odd, 98 Supplement, W.S., Exam 2 Review Sheet

EXAM 3 Material

Section	Title	Page	Problems
9.1	Sequences	p. 604	1-103 odd, 110, 115-125 odd
9.2	Series	p. 614	1-81 odd, 82, 101, 105, 115, 123, 127, 131, W.S., Demonstration
9.3	Integral Test and *p*-series	p. 622	1-55 odd, 57, 69-79 odd, 83, 87-97 odd
9.4	Comparisons of Series	p. 630	1-35 odd, 45, 47, 52, 53-59 odd
9.5	Alternating Series	p. 638	1-33 odd, 37-79 odd, 87-95 odd
9.6	Ratio and Root Tests	p. 647	1-85 odd, 87, 91, 97, 106, Infinite Series Problem Set
9.7	Taylor Polynomials and Approximations	p. 659	1-4 all, 5-29 odd, 33, 49, 51, Demonstrations
9.8	Power Series	p. 668	1-47 odd, 49-52 all, 63, 65, 69, 71, 79, 81
9.9	Representation of Functions by Power Series	p. 676	1-25 odd, 51
9.10	Taylor and MacLaurin Series	p. 687	1-11 odd, 17-39 odd, 57, 58, 63, 69, Exam 3 Review Sheet

EXAM 4 Material

Section	Title	Page	Problems
10.2	Plane Curves and Parametric Equations	p. 718	1-35 odd, 39-42 all, 43-49 odd, 51, 59, 63, 68, 71, 75, Demonstration
10.3	Parametric Equations and Calculus	p. 727	1-55 odd, 61
10.4	Polar Coordinates and Polar Graphs	p. 738	1-21 odd, 23-26 all, 27-55 odd, 63, 69, 77, 81, Demonstrations
10.5	Area and Arc Length in Polar Coordinates	p. 747	1-33 odd, 37-49 odd, Exam 4 Review Sheet