MATH 144 WTR, 2006, Course Outline

Lectures: MWF at 9:30-10:20 in MLR 302B

Section Tue (9:30-10:50), Thurs 9:30-10:20 in SMI 404

• There will be a test (almost) every week, usually Tuesday or Thursday. Each weekly test and the final counts 100 points. There may be an occasional unannounced quiz worth 20 points. The Final test will be on Saturday, March 10, 2006, from 1:30-3:30.

• There will be one assignment each week, due dates (usually Tue) to be assigned. The assignments are to be handed in and will be graded. The HW counts a total of 100 points.

• The first test will be Jan 10, and the first assignment is due Jan 10, 2006

SYLLABUS

No.	Section	Topic	Page
I	18	Antiderivatives	205
II	19	The Integral	216
	20	Fundamental Theorem of Calculus	225
III	21	Area, Volumes	236
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	Handout	Normal Distribution	
IX	Handout	Poisson Distribution	

M145 Assignment I Due Tue Jan 10, 2005

Section 18 (Antiderivatives, p205) 3, 5, 10, 17, 20, 33, 37, 41, 43, 51

Practice problems:

Section 18 (Antiderivatives, p205) 2, 7, 11, 13, 20

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M145 Worksheet # 1 Tue, Jan 3, 2006

(1) $\int (x^7 + x)\, dx =$

(2) $\int x^{\frac{2}{3}}\, dx =$

(3) $\int \dfrac{(x^4 + x^2 + 1)\, dx}{x} =$

(4) $\int (x^2 + 3)\, dx =$

(5) $\int (x + 1)^4 dx =$

(6) $\int (3x + 2)^5 dx =$

(7) $\int e^{2x}\, dx =$

(8) $\int e^{-3x}\, dx =$

(9) $\int \dfrac{x^3 + x^2 + x + 1}{\sqrt{x}}\, dx =$