

Midterm

Math 115 (A1)

Date: Wednesday, November 20, 2000

50 minutes

Instructor: Y. Lin

Last Name: _____ First Name: _____ Initial: _____

Please show all your work!

MATH 115 (A1)
The Second Midterm Exam
Fall 2000

Student (Print)	_____	1
	Last First Middle	
Student (Sign)	_____	2
		3
Student ID	_____	4
Instructor	_____	TOTAL
Section	_____	

$$\text{I (a)(5)} \int x^2 e^x dx$$

$$\text{(b)(5)} \int \cos^4(x) dx$$

$$\text{II. (a)(5) } \int \tan^5(x) \sec^7(x) dx$$

$$\text{(b)(5) } \int \frac{1}{x^2 \sqrt{x^2 + 4}} dx$$

III Evaluate

(a)(5) $\int_0^1 x \ln(x) dx$

(b)(5) Use Midpoint rule and Simpson rule to find approximate values of $\int_0^2 (x^2 + x) dx$ with $n = 2$.

$$\text{IV. (a) (5) } \int \frac{1}{(x-1)^2(x+4)} dx$$

$$(b)(5) \int \frac{1}{x^{1/2} + x^{1/3}} dx$$