MATH 2 PROBLEM OF THE WEEK 1

Due Friday, January 31st, 2003 before the quiz.

Please show all your work!

Name:		
Show the follow:	ing:	
(1)		
	$\int \frac{(\ln x)^n}{x} dx = \frac{(\ln x)^{n+1}}{n+1} + c$	
(2)	ſ	
	$\int (\ln x)^n dx = x(\ln x)^n - n \int (\ln x)^{n-1} dx$	