Calculus: Inclass Homework 8

November 22nd, 2007

1.	(a)	Show that $x \ln x - x$ is an antiderivative of $\ln x$.
	(b)	Use part (a) to guess an antiderivative of $\ln x $. Then, deduce all other antiderivatives from your guess.
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2.		ght circular cylinder is inscribed in a sphere of radius R . Find the dimensions of the cylinder that its volume becomes maximal.
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