

Week 6 Recitation Problems

MATH:113, Recitations 304 and 305

Names: _____

Fact 1: the power rule.	Fact 2: the product rule.

Fact 3: linearity of derivatives.

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Round	Attempted	Correct
1		
2		
3		
Totals		

Bonus problem: Prove that

$$\frac{d}{dx} \ln(x) = \frac{1}{x}.$$

Hints: let $t = h/x$, then use the fact that $e = \lim_{t \rightarrow 0} (1 + t)^{1/t}$.

Proof 1: Derivative of the natural logarithm.