

## Quiz

Intermediate Calculus & Analytic Geometry (MATH 242 A) Date: October 21, 2013

Name:

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1-3. (2 pts each) Use L'Hospital's rule to find the limit:

1.  $\lim_{x \rightarrow 0^+} x^x$

2.  $\lim_{x \rightarrow -\infty} x \cdot e^x$

3.  $\lim_{x \rightarrow 1} \frac{\ln x}{x-1}$

4-5. (2 pts each) Integrate:

4.  $\int t \cdot \sin x \, dt$

5.  $\int t^2 \cdot e^t \, dt$