

Name: \_\_\_\_\_

MATH 200 – QUIZ 12 \$

Instructions: Show work and put a box around your final answer.

April 11, 2013

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1.  $\lim_{x \rightarrow 0} \frac{e^{\sin x} - 1}{x} =$

2.  $\int \left( 4x + \frac{1}{x} + \sin(x) \right) dx =$

3.  $\int e^{3x} dx =$

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1.  $\lim_{x \rightarrow \frac{\pi}{2}} \frac{\cos(x)}{\sin(2x)} =$

2.  $\int (e^x + e + \sec^2(x)) dx =$

3.  $\int \frac{2}{|x|\sqrt{x^2 - 1}} dx =$

Name: \_\_\_\_\_

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1.  $\lim_{x \rightarrow 0} \frac{3x}{1 - e^{\sin x}} =$

2.  $\int (2e^x + x^4 + \sec(x) \tan(x)) dx =$

3.  $\int \frac{5}{\sqrt{1-x^2}} dx =$

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1.  $\lim_{x \rightarrow \frac{\pi}{2}} \frac{2x - \pi}{\cos(2\pi - x)} =$

2.  $\int (\sqrt[3]{x} + \cos(x)) dx =$

3.  $\int \frac{2}{1+x^2} dx =$