

Calculus II - Fall 2013

Quiz #1, September 19, 2013

In the following problems you are required to show all your work and provide the necessary explanations everywhere to get full credit.

1. Find $\int_0^1 \frac{\sqrt{x}}{1 + \sqrt{x}} dx$.

2. Find $\int e^x \sqrt{1 - e^x} dx$.

3. Find $\int_0^\pi \tan^2 \frac{x}{3} dx$.

4. Find $\int x \cos 5x dx$.

5. Find $\int \frac{\sqrt{9-x^2}}{x^2} dx$.