

Name: _____

This quiz covers: and 5.4, 5.5 and 5.6.

Directions: Complete all question and **show all applicable work.** Partial credit will be given. All questions are equally weighted.

1.) Compute $f'(x)$ if:

$$f(x) = \int_1^x t^2 \sin t \, dt$$

2.) Evaluate:

$$\int_1^4 \frac{e^{\sqrt{x}}}{\sqrt{x}} \, dx$$

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3.) Compute:

$$\int_1^2 \frac{\ln(x)}{x^2} dx$$