

MATH 2300 - Quiz 1

Instructions: You have 20 minutes to complete this quiz. You may not use your calculator, book, or notes. You may not work with anyone else on the quiz. You are encouraged to ask me a question if you are confused about something.

1. Compute the following indefinite integral:

$$\int x e^{-x^2} dx$$

2. Compute the following definite integral:

$$\int_0^2 \frac{e^{\sqrt{x}}}{\sqrt{x}} dx$$

3. Suppose that $\int_0^1 f(t)dt = 3$. Calculate the following:

$$\int_0^1 f(1-t)dt$$

Hint: Remember that $\int_a^b f(t)dt = -\int_b^a f(t)dt$