MATH 2300 - Quiz 2

Instructions: 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:

$$\int t\sin(t)dt$$

2. Compute the following indefinite integral:

$$\int_1^2 y\ln(y)dy$$

Do **one** of the following two problems:

3. Compute the following indefinite integral:

$$\int (\ln(y))^2 dy$$

Hint: Write $(\ln(y))^2 = 1 \cdot (\ln(y))^2$

4. Compute the following definite integral:

$$\int_{\pi}^{\frac{3\pi}{2}} (\sin(t))^2 dy$$

Hint: I did a similar example in class last week