

- To use this as a practice quiz, you should have studied the problem banks in advance.
- Put away all material and set a timer for 15 minutes. (You will have 15 minutes for this quiz in class.)
- Go to your math mentors study hours to check your answers.

Practice Quiz: Basic Integrals, Fall 2017

Version: 2

Name (Print): _____ RIN: _____

Math Mentor Name: _____

Rules: Notes, calculators, cell phones and headphones are not allowed.

Honor Code Pledge: I did not violate any rules on this quiz and have no knowledge of any other student violating rules on this quiz. _____ (Signature)

Instructions: Put your final answer in the box shown. No partial credit will be given and nothing outside the box will be graded.

1. Express the indefinite integral $\int x(3x^2 + 7) dx$ in terms of elementary functions. Use the symbol C to denote an arbitrary constant.

2. Express the indefinite integral $\int (4 \sec(x) \tan(x) + 6e^x) dx$ in terms of elementary functions. Use the symbol C to denote an arbitrary constant.

3. Express the indefinite integral $\int -3x^{3/2} \sin(x^{5/2} + 1) dx$ in terms of elementary functions. Use the symbol C to denote an arbitrary constant.

4. Evaluate $\int_1^4 \frac{1}{x^{2/5}} dx$. Express your answer in simplified form.

5. Express the indefinite integral $\int 4 \sin(6x) dx$ in terms of elementary functions. Use the symbol C to denote an arbitrary constant.