

- 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: 1

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 $\int 4 (\sec(t))^2 dt$ in terms of elementary functions. Use the symbol C to denote an arbitrary constant.

2. Express the indefinite integral $\int \frac{6}{x^{\frac{3}{2}}} dx$ in terms of elementary functions. Use the symbol C to denote an arbitrary constant.

3. Express the indefinite integral $\int \frac{2x^5 + 7x^3 + 3}{x} dx$ in terms of elementary functions. Use the symbol C to denote an arbitrary constant.

4. Express in simplified form the value of $\int_0^2 (2x^2 + 4x - 1) dx$.

5. Express in simplified form the value of $\int_0^1 (2x^{\frac{5}{2}} + x^{\frac{2}{3}}) dx$.