

- 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: 3

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.

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1. Express the indefinite integral  $\int 5 \sec(t) \tan(t) dt$  in terms of elementary functions. Use the symbol C to denote an arbitrary constant.

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

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

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

5. Express the indefinite integral  $\int \frac{7x^4 + 4x^3 - 2}{x} dx$  in terms of elementary functions. Use the symbol C to denote an arbitrary constant.