

- 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 10 minutes. (You will have 10 minutes for this quiz in class.)
- Go to your math mentors study hours to check your answers.

Practice Quiz Derivatives, 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.

1. Differentiate the function $g(x) = \cos(2x) e^{5x}$. Express your answer in terms of elementary functions.

2. Differentiate the function $g(x) = 7 \sec(x) + e^x + 3x^4$. Express your answer in terms of elementary functions.

3. Differentiate the function $f(t) = \frac{6 \sec(t)}{t^3}$. Express your answer in terms of elementary functions.

4. Differentiate the function $f(x) = -5 e^x \sin(x)$. Express your answer in terms of elementary functions.

5. Let $z = (\sin(t))^5$. Find $\frac{dz}{dt}$. Express your answer in terms of elementary functions.