

Mathematics 1151  
Practice Computational Test 2

Name: \_\_\_\_\_

Recitation Instructor and time: \_\_\_\_\_

OSU username (lastname.#): \_\_\_\_\_

Compute the derivative of each of the following 8 functions. You do not need to simplify. You do not need to show steps. Calculators are not allowed. **No partial credit will be awarded.** Be very careful with notation, signs, parentheses, etc. Please circle or box your final answer for each question.

1.  $f(x) = 13x^{12} + \pi^3 + xe^x$

2.  $f(x) = \left(\frac{7}{x^3}\right)^{10} + \frac{5}{\sqrt[3]{x}} + \frac{\sin(x)}{x}$

3.  $f(x) = e^{5x}\sqrt{x} - \frac{5e^5}{x^6}$

4.  $f(x) = \frac{5x}{(\ln(x) + 8x^2)(x^2 - 3e^x)}$

Mathematics 1151 2nd Practice Computational Quiz

5.  $f(x) = x^{\cot(x)} + 5$

6.  $f(x) = \cos(5x)e^{\sec(x)}$

7.  $f(x) = \sqrt[4]{3 + e + \csc(x)}$

8.  $f(x) = \tan(\sin(e^x))$