Mathematics 1151

Practice Computational Test 1

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.
$$f(x) = \ln (5 \cot (5x^7 + 6))$$

2.
$$f(x) = e^{\sin(x)}\cos(4x)$$

3.
$$f(x) = (4x + \cos(2))^{55}$$

4.
$$f(x) = x^6 \sec(2) + e^{-3x}$$

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Computational Quiz

5.
$$f(x) = \left(\frac{4x^{10} - 2x}{x^6 + 3}\right) \sec(x)$$

6.
$$f(x) = \sqrt{\frac{4}{x^4} + 2x}$$

7.
$$f(x) = \cot^2(x) + \csc^3(2x)$$

$$8. \ f(x) = \frac{e^{3x}\sqrt{x}}{\ln(x)}$$