Math 1151

1st Practice (Computational) Quiz 5

Name: ____________________________________________________

Recitation Instructor and time: ________________________________

OSU username (lastname.#): __________________________

Directions:
Compute the derivatives of the following eight functions. You do not need to simplify. You do not need to show steps. Calculators are not allowed. You must get 5 out of the 6 perfectly correct to pass. 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. \( f(x) = x \ln(\ln(x)) \)

2. \( y = \frac{e^{5x}}{4} + \frac{9}{x} - \tan^{-1}(5x) \)

3. \( r(t) = 2t^2 + \pi^2t + \pi2t + t2^t \)

4. \( f(y) = \left(5y - \frac{3}{y^2}\right)^{2^7} \)
5. \( y = 7 \cot \left( \frac{4x^7 - 3x}{2x^5 + 2} \right) \)

6. \( g(y) = \sqrt[3]{5 + \pi + \cos(y)} \)

7. \( s(t) = (t \sin(t) - 3)(\sqrt{t} - 7) \)

8. \( y = \frac{e^{\sin^{-1}(x)} \cos(x)}{7^e} \)