Math 135, Calculus 1, Fall 2020

Weekly Quiz 11-11

Show all work: clearly indicate your answer and the reasoning used to arrive at the answer. Unsupported answers may not receive full credit.

Problem 1. For the equation xy + 3x + 4y = -2, calculate the derivative $\frac{dy}{dx}$ at the point (1, -1).

Problem 2. Use logarithmic differentiation to compute f'(x) if $f(x) = x^{8x}$. You must show all work.