NAME: Quiz 5

Instructions: This assignment is open-book and open-note. You are welcome and encouraged to work with others, but you must write up your answers individually and in your own words. Copying another person's work is strictly prohibited! Answer each question. Show all work to receive full credit. Unless the question specifies, you may provide either an exact answer or round to two decimal places.

- 1) Differentiate (compute the derivative) each of the following functions. [Note: $\exp(x) = e^x$].

 (a) $te^{-3t}2^t$
 - (b) $\frac{t}{e^{5t}}$
 - (c) $5x^2 \exp(\ln(5x^2))$
 - $\exp(2^{3^x})$
 - (e) $\frac{3y + y^2}{5 + y}$

February 20, 2018 Page 1 of 1 Michael Levet