

NAME: _____

Panther ID: _____

Quiz 2 - MAC 2281, Spring 2019

To receive credit you **MUST SHOW ALL YOUR WORK**. Answers which are not supported by work will not be considered.

1. (8 pts) Compute the derivative of each of the following functions. You **don't** have to simplify.

(a) $y = (x^3+x)^6$

(b) $y = x^2e^{-3x}$

(c) $y = \sec(\tan x)$

$y = \sin^4(\sqrt{x})$

2. (3 pts) Find the values of x at which the tangent line to the graph of $y = \frac{x^2-3}{x+2}$ is horizontal.