MATH 141: QUIZ 6 SECTIONS 3.8 AND 3.9

ANN CLIFTON UNIVERSITY OF SOUTH CAROLINA

Name:			
Name:			

No phone or calculator. You must show all work to receive full credit. Be sure to make reasonable simplifications.

1. (4 points) Use logarithmic differentiation to find $\frac{dy}{dx}$:

$$y = x^{\sin x}$$

Date: March 7, 2018.

2. (4 points) Differentiate the following function:

$$f(x) = \arctan(3x^5)$$

3. (2 points) What are you looking forward to over spring break?