

MATH 131, Fall 2019

Name: \_\_\_\_\_

Quiz 5

10/10/19

Section: \_\_\_\_\_

For full credit you must present a clearly organized solution, showing all supporting calculations.

1. Compute  $\frac{d}{dx} \left( \sin \left( 2 \cos^{-1} \sqrt{x} \right) \right)$ . You do not need to simplify.

2. Find the equation of the line tangent to the curve  $x^3 + 8xy^2 - y^5 = 1$  at  $(1, 2)$ . You may leave the equation in point-slope form if you wish.