Calculus I
Written Assignment 9
FALL 2015
DUE October 2

Exercise 1. Prove the formula

$$
\frac{d}{d x} \operatorname{arcsec} x=\frac{1}{x \sqrt{x^{2}-1}}
$$

by the method we used to differentiate $\arccos x$ in class. You may assume $x>1$.

Exercise 2. Carefully write up your solution to Question 9 of the WA assignment "Implicit Differentiation."

Exercise 3. Carefully write up your solution to Question 10 of the WA assignment "Implicit Differentiation."

