

Calculus I Fall 2015

Written Assignment 9 Due October 2

Exercise 1. Prove the formula

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

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."