

Last Name: _____

First Name: _____

Student ID: _____

Quiz 1

Question 1. (5 marks) Find the following derivatives:

(a) $\frac{d}{dx} \csc x$

(b) $\frac{d}{dx} 7^x$

(c) $\frac{d}{dt} \arcsin t$

(e) $\frac{d}{dx} (\sin x \cdot \ln(5x))$

Question 2. (2 marks) Find the following antiderivatives:

(a) $\int \csc^2 x dx$

(b) $\int \tan x dx$

Question 3. (3 marks) Find $f(\theta)$ given $f''(\theta) = \sin \theta + \cos \theta$ and $f(0) = 3$, $f'(0) = 4$.