Dawson College: Calculus II: 201-NYB-05 12

January 28, 2010

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.