Dawson College:	Calculus II	(SCIENCE)): 201-NYB-05-S	S03: Fall 2014

Name:	
Student ID:	

Quiz 10

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (5 marks) §7.2 #4 Set up an integral for the volume of the solid obtained by rotating the region bounded by the given curves about the specified axis.

$$y = \tan x$$
, $y = 0$, $x = \pi/4$; about $x = \pi/2$

Question 2. (5 marks) §7.2 #11 Find the exact length of the curve

$$y = \ln(\sec x), \quad 0 \le x \le \frac{\pi}{4}$$

Bonus Question. (5 marks) Evaluate the integral.

$$\int \sqrt{5+4x-x^2} \, dx$$