Dawson	College:	Calculus	II: 201	-NYB-	05-S3:	Fall	2010

Name:	
Student ID:	

Quiz 10

This quiz is graded out of 15 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. §7.4 #23 (5 marks) Set up, but do not evaluate, an integral for the volume of the solid obtained by rotating the region bounded by the given curves about the specified line.

$$y = x^4$$
, $y = \sin\left(\frac{\pi x}{2}\right)$ about $x = -1$

Question 2. §7.4 #9 (5 marks) Find the length of the curve.

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

Question 3. (5 marks) Evaluate the indefinite integral:

$$\int \frac{t^2 - 3t - 5}{t^3 + 5t} dt$$