T.	C 11	α 1 1	TT 20	1 3 13 7 15	05.00	XX7' .	2010
Dawson	College:	Calculus	11 : 20	1-IN I B-	UD-52:	winter	2010

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) §7.4 #5 Find the length of the curve: $y = \frac{x^5}{6} + \frac{1}{10x^3}$, $1 \le x \le 2$.

Question 2. (5 marks) A tank has a 14m diameter on top, its shape is defined by revolving $y = \frac{x^2}{7}$ about the y-axis. Set up the integral to find the work required to empty the tank of a liquid with an arbitrary density ρ from a pump 5m above the top of the tank.