Dawson College:	Calculus II	(SCIENCE)	· 201-NYB	-05-S09·	Winter 2013

Name:	
Student ID:	

Quiz 12

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) §8.2 #20 Find the radius of convergence and interval of convergence of the series.

$$\sum_{n=1}^{\infty} \frac{(2x-1)^n}{5^n \sqrt{n}}$$

Question 2. (5 marks) §8.7 #17 Find the Taylor series for f(x) centered at the given value of a. [Assume that f has a power series expansion. Do not show that $R_n(x) \to 0$.]

$$f(x) = \cos x, \quad a = \pi$$