Dawson College: Calculus	II (SCIENCE)	: 201-NYB-05-S03003:	Winter 2013
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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) §8.5 #16 Find the radius of convergence and interval of convergence of the series.

$$\sum_{n=0}^{\infty} (-1)^n \frac{(x-3)^n}{2n+1}$$

Question 2. (5 marks) §8.7 #16 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 $R_n(x) \to 0$.]

$$f(x) = \sin x, \quad a = \pi/2$$