Dawson College: Calculus II (SCIENCE): 201-NYB-05-S2: Winter 2012	
	Name:

Quiz 12

Student ID:

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) §8.7 #7 Find the Maclaurin series for $f(x) = e^{5x}$. Assume that f has a power series expansion. Do not show that $R_n \to 0$.

Question 2. (5 marks) §8.7 #15 Find the Taylor series for $f(x) = \sin x$ centered at $x = \pi/2$. Assume that f has a power series expansion. Do not show that $R_n \to 0$.