Dawson Co	llege: Cal	culus II: 2	201-NYB-	-05-C1:	Winter 2008
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Name:	
Student ID:	

## Quiz 7

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.** §8.7#39 (5 marks)

Evaluate the following limit, using L'Hôpital's Rule if necessary:

$$\lim_{x \to \infty} x \sin\left(\frac{1}{x}\right)$$

**Question 2.** §8.8# (5 marks)

Evaluate the following improper integral if it converges:

$$\int_4^\infty \frac{1}{x(\ln x)^3} \, dx$$