Dawson	College:	Calculus I	I· 201-	NYB-05 12
Dawsun	Conege.	Calculus I	I. 401	11 1 0 -0 3 1 2

	Due April 19, 2010
Last Name:	
First Name:	

Student ID:

Quiz/Assignment 9

Question 1. (5 marks) Evaluate the following limit:

$$\lim_{x\to 0^+}(\cos x)^{1/x^2}$$

Question 2. Evaluate the following:

(a) (5 marks)

$$\int_0^2 \frac{dx}{\sqrt{1-x^2}}$$

(b) (5 marks)

$$\int_{-1}^{1} \frac{e^x}{e^x - 1} dx$$

(c) (5 marks)

$$\int_0^2 z^2 \ln z \, dz$$

Question 3.

- (a) (5 marks) Find the area bound by the curves $y = \sin x$ and $y = e^x$ and the lines x = 0 and $x = \pi/2$.
- **(b)** (5 marks) Find the area bounded by the curves $x = 2y^2$ and $x = 4 + y^2$.