Name: _____
Student ID: _____

Quiz 8

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. §3.7 #35 *(5 marks)* Evaluate the indefinite integral:

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

Question 2. §6.6 #32 *(5 marks)* Determine whether the integral is convergent or divergent. Evaluate if convergent.

$$\int_0^1 \frac{\ln x}{\sqrt{x}} dx$$