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. *(5 marks)* §6.2 #31 Evaluate the indefinite integral.

$$\int \cot^3 \alpha \csc^3 \alpha \, d\alpha$$

Question 2. *(5 marks)* §6.5 #8 Use the Trapezoidal Rule to approximate the given integral with $n = 4$,

$$\int_0^{1/2} \sin x^2 \, dx.$$