Name: _____

Student ID: _____

Quiz 4

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. §4.6 #8 *(10 marks)*

Use the Trapezoidal Rule and Simpson's Rule to approximate the value of the definite integral for $n = 4$. Round your answer to four decimal places and compare the results with the exact value of the definite integral.

$$\int_0^2 x\sqrt{x^2+1}\, dx$$