

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) §6.6 #49 Find the values of p for which the integral converges and evaluate the integral for those values of p .

$$\int_0^1 \frac{1}{x^p} dx$$

Question 2. (5 marks) §7.1 #32 Find the area of the region bounded by the parabola $y = x^2$, the tangent line to this parabola at $(1, 1)$, and the x -axis.