

Name: _____
Student ID: _____

Quiz 3

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) §5.1 #5c Estimate the area under the graph of $f(x) = 1 + x^2$ from $x = -1$ to $x = 2$ using three rectangles and using left endpoints. Sketch the curve and the approximating rectangles.

Question 2. (5 marks) §5.2 #36 Evaluate the integral by interpreting it in terms of areas.

$$\int_0^{10} |x - 5| \, dx$$