

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

**Question 2.** (5 marks) §5.2 #21 Use only the definition of the definite integral to evaluate:

$$\int_0^2 (2 - x^2) dx$$