Dawson	College:	Calculus II	SCIENCE).	201-NYB-	05-S1: Fall 2011
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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.** (6 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 midpoints. Sketch the curve and the approximating rectangles.

**Question 2.** (4 marks) §5.2 #42 Find  $\int_0^5 f(x) dx$  if

$$f(x) = \begin{cases} 3 & \text{for } x < 3\\ x & \text{for } x \ge 3 \end{cases}$$