Name: _____

Student ID: _____

Quiz 10

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. *(3 marks)* §25.2 #23 Integrate.

$$\int (1 + 12x^2)^2 \, dx$$

Question 2. *(3 marks)* §25.4 #27 Evaluate the given definite integral.

$$\int_0^2 2x(9 - 2x^2)^2 \, dx$$

Question 3. *(4 marks)* §25.5 #9 Approximate the value of the integral by use of the trapezoidal rule, using the given value of n. Round to 3 significant digits.

$$\int_0^5 \sqrt{25 - x^2} \, dx \quad n = 5$$