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

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

Question 2. *(2 marks)* §5.2 #38 Evaluate $\int_1^1 x^2 \cos x \, dx$.

Question 3. *(2 marks)* §5.3 #29 What is wrong with the equation?

$$\int_0^{\pi} \sec^2 x \, dx = [\tan x]_0^{\pi} = 0$$

Question 4. *(4 marks)* §5.3 #21 Evaluate the integral.

$$\int_1^{64} \frac{1 + \sqrt[3]{x}}{\sqrt{x}} \, dx$$