

Name: _____
Student ID: _____

Quiz 4

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) §5.3 #28 Evaluate the integral.

$$\int_0^{3\pi/2} |\sin x| \, dx$$

Question 2. (5 marks) §5.4 #19 Let $f(x) = (x-3)^2$, $[2, 5]$

- Find the average value of f on the given interval.
- Find c such that $f_{\text{ave}} = f(c)$.
- Sketch the graph of f and a rectangle whose area is the same as the area under the graph of f .