

Name: _____
Student ID: _____

Quiz 5

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) §5.5 #46 Evaluate the definite integral.

$$\int_{-\pi/2}^{\pi/2} \frac{x^2 \sin x}{1+x^6} dx$$

Question 2. (3 marks) §5.5 #14 Evaluate the indefinite integral.

$$\int \frac{dt}{\cos^2 t \sqrt{1 + \tan t}}$$

Question 3. (4 marks) §5.5 #51

$$\int_e^{e^4} \frac{dx}{x\sqrt{\ln x}}$$