

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 #49 Evaluate the definite integral.

$$\int_{-\pi/4}^{\pi/4} (x^3 + x^4 \tan x) dx$$

Question 2. (3 marks) §5.5 #36 Evaluate the indefinite integral.

$$\int \frac{x}{1+x^4} dx$$

Question 3. (4 marks) §5.5 #42 Evaluate the definite integral.

$$\int_{1/6}^{1/2} \csc \pi t \cot \pi t dt$$