

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.** (5 marks) §5.5 #49 Evaluate the following definite integral.

$$\int_e^{e^4} \frac{1}{x\sqrt{\ln x}} dx$$

**Question 2.** (5 marks) §6.1 #20 Evaluate the following definite integral.

$$\int_1^{\sqrt{3}} \arctan\left(\frac{1}{x}\right) dx$$