

Name: \_\_\_\_\_  
Student ID: \_\_\_\_\_

# Quiz 1

This quiz is graded out of 10 marks. No books, graphing 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.** (6 marks) Find the following indefinite integral.

1.

$$\int \frac{1}{x^{1/7}} dx$$

2.

$$\int \sin x dx$$

3.

$$\int \csc^2 x dx$$

4.

$$\int \sec x \tan x dx$$

5.

$$\int \csc x dx$$

6.

$$\int \tan x dx$$

**Question 2.** (4 marks) Find the following indefinite integral.

$$\int \frac{(\ln x)^3}{x} dx$$