

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

## Quiz 6

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) §6.2 #14

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

**Question 2.** (5 marks) §6.2 #53  
Evaluate the integral.

$$\int \frac{\sqrt{x^2-9}}{x^3} \, dx$$