

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 #5 Evaluate the integral.

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

**Question 2.** (5 marks) §6.2 #31 Evaluate the integral.

$$\int \cot^3 \alpha \csc^3 \alpha \, d\alpha$$