

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

## Quiz 3

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.** (6 marks) §5.3 #19 Use the definition of the integral to evaluate the integral (*use the limit process*).

$$\int_0^2 2 - x^2 \, dx$$

**Question 2.** (4 marks) §5.3 #25 Evaluate the integral.

$$\int_0^{\pi/4} \frac{1 + \cos^2 \theta}{\cos^2 \theta} \, d\theta$$