

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

## Quiz 7

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 #45 Evaluate the definite integral.

$$\int_0^a \frac{dx}{(a^2 + x^2)^{3/2}}$$

**Question 2.** (5 marks) §6.3 #19 Evaluate the indefinite integral.

$$\int \frac{x^2 + 1}{(x-3)(x-2)^2} dx$$