

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) §6.1 #12 Evaluate the indefinite integral.

$$\int \sin^{-1} x \, dx$$

**Question 2.** (5 marks) §6.2 #30 Evaluate the definite integral.

$$\int_{\pi/4}^{\pi/2} \cot^3 x \, dx$$

**Question 3.** (5 marks) §6.2 #49 Evaluate the indefinite integral.

$$\int \sqrt{1-4x^2} dx$$