Name: _____
Student ID: _____

Quiz 5

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. §8.3#17 *(5 marks)*
Integrate the following indefinite integral:

$$\int x\sin^2 x \, dx$$

Question 2. §8.4#13 *(5 marks)*
Integrate the following indefinite integral:

$$\int x\sqrt{1+x^2} \, dx$$

Bonus. (1 mark)
List the half-angle trigonometric identities given last class.