

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. §7.1#35 (6 marks)

Find the area bounded by the two curve $y = x^2 - 4x + 3$ and $y = 3 + 4x - x^2$ and give a graph of both curves.

Question 2. §8.1#11 (4 marks)

Integrate the following indefinite integral using integration by parts:

$$\int xe^{-2x} dx$$

Bonus. (1 mark)

List the three trigonometric identities given last class.