Name: _____

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)* §6.2 #62 Evaluate the integral by first completing the square.

$$\int \frac{x^2}{(3+4x-4x^2)^{3/2}}$$

Question 2. *(5 marks)* §6.1 #39 Make a substitution to express the integrand as a rational function and then evaluate the integral.

$$\int \frac{e^{2x}}{e^{2x}+3e^x+2}\, dx$$