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 #20
Evaluate the integral.

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

Question 2. *(5 marks)* §6.6 #31
Determine whether each integral is convergent or divergent. Evaluate those that are convergent.

$$\int_0^2 z^2 \ln z \, dz$$