

Name: _____
Student ID: _____

Quiz 8

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) §3.7 #32 Find the limit.

$$\lim_{x \rightarrow \infty} x^{(\ln 2)/(1 + \ln x)}$$

Question 2. (5 marks) §6.6 #18 Determine if the integral is convergent or divergent. Evaluate those that are convergent.

$$\int_{-\infty}^6 r e^{r/3} dr$$