

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) §8.7 #40

Evaluate the limit, using L'Hôpital's Rule if necessary.

$$\lim_{x \rightarrow \infty} x \tan\left(\frac{1}{x}\right)$$

Question 2. (5 marks) §8.7 #46

Evaluate the limit, using L'Hôpital's Rule if necessary.

$$\lim_{x \rightarrow 1^+} (\ln x)^{x-1}$$