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)* §7.2 #11 Find the volume of the solid obtained by rotating the region bounded by the given curves about the specified line. Sketch the region.

$$y = x^2, x = y^2; \text{ about } x = -1$$

Question 2. *(5 marks)* §7.4 #6 Find the length of the curve.

$$y = \frac{x^2}{2} - \frac{\ln x}{4} \quad 2 \le x \le 4$$