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)* §7.1 #19 Sketch the region enclosed by the given curves and find its area.

$$y = 1/x, \quad y = x, \quad y = \frac{1}{4}x, \quad x > 0$$

Question 2. *(5 marks)* §7.4 #10 Find the exact length of the curve

$$x = \frac{y^4}{8} + \frac{1}{4y^2}, \quad 1 \le y \le 2$$