

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 #14

Sketch the region enclosed by the given curves. Then find the area of the region.

$$y = |x|, y = x^2 - 2$$

**Question 2.** (5 marks) §7.2 #9

Find the volume of the solid obtained by rotating the region bounded by the given curves about the specified line.

$$y = x, y = \sqrt{x}; \text{ about } y=1$$