

Name: _____
Student ID: _____

Quiz 9

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 #15 The region enclosed by the given curves is rotated about the specified line. Find the volume of the resulting solid.

$$x - y = 1, y = x^2 - 4x + 3; \text{ about } y = 3$$

Question 2. (5 marks) §7.3 #22 Set up an integral for the volume of the solid obtained by rotating the region bounded by the given curves about the specified axis.

$$y = \tan x, y = 0, x = \pi/4; \text{ about } x = \pi/2$$