Name: Y. Lamon tagne
Student ID:

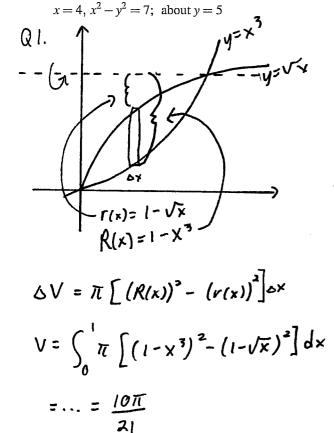
## Quiz 9

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

$$y = x^3$$
,  $y = \sqrt{x}$ ; about  $y = 1$ 

**Question 2.** (5 marks) §7.3 #26 Set up an integral for the volume of the solid obtained by rotating the region bounded by the given curves about the specified axis.



and obtained by rotating the region bounded by the given by 
$$Q_{2} = \frac{1}{3}(y)$$
,  $y = \frac{1}{3}(y)$ ,

 $V = \int_{-2\pi}^{3} 2\pi (5-y) (4\sqrt{7+y^2}) dy$