Name: _____

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)* §7.3 #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. Sketch the region, draw a representative rectangle, write a representative element and label the sketch completely.

$x^2 - y^2 = 7$, $x = 4$; about the $y = 5$

Question 2. *(5 marks)* Review Chapter 7 #8 Find the volume of the solid obtained by rotating the region bounded by the given curves about the specified axis. Sketch the region, draw a representative rectangle, write a representative element and label the sketch completely.

$y = x^2 + 1$, $y = 9 - x^2$; about the $y = -1$