Name: Student ID:

Quiz 6

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. §7.5 #25

An open tank has the shape of a right circular cone. The tank is 4 meters across the top and 6 meters high. How much work is done in emptying the tank by pumping the water over the top edge? ($\rho = 1000 \frac{kg}{m^3}$ and $g = 9.8 \frac{m^2}{s}$)