

Name: _____
Student ID: _____

Quiz 9

This quiz is graded out of 10 marks. No books, graphing 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 (10 marks)

An open tank has the shape of a circular cone with its tip oriented downward. The tank is 8 feet across the top and 6 feet high. How much work is done in emptying the tank by pumping the water over the top edge? (The water weighs 62.4 pounds per cubic feet)