Name: _____
Student ID: _____

Quiz 7

This quiz is graded out of 10 marks. No books, 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)* pg. 723 #18 A rectangular storage area is to be constructed along the side of a tall building. A security fence is required along the remaining three sides of the area. What is the maximum area that can be enclosed with 800 *m* of fencing?

Question 2. *(5 marks)* pg. 724 #36 A cone-shaped paper cup is to hold 100 cm^3 of H_2O. Find the height and radius of the cup that can be made from the least amount of paper.