Name: _____

Student ID: _____

Quiz 5

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. *(4 marks)* pg. 707 #15 A rectangular swimming pool 16 m by 10 m is being filled at a rate of 0.8 m^3/min. How fast is the height h of the water rising?

Question 2. *(6 marks)* pg. 707 #35 A weather ballon leaves the ground 275 m from an observer and rises vertically at 12 m/s. How fast is the line of sight from the observer to the ballon increasing when the ballon is 450 m high?