

## Phys101 Assignment Cover Sheet

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_ Mark: \_\_\_\_\_

Student ID: \_\_\_\_\_ Date: \_\_\_\_\_

### Phys101 Written Assignment #4

Due Mon June 6, 2011, at the beginning of tutorial

Textbook (Giancoli, 6th edition) page 165 problem #77.

**77.** A ball is attached to a horizontal cord of length  $L$  whose other end is fixed.

(a) If the ball is released, what will be its speed at the lowest point of its path?

(b) A peg is located a distance  $h$  directly below the point of attachment of the cord. If  $h = 0.80L$ , what will be the speed of the ball when it reaches the top of its circular path about the peg?

