Phys101 Assignment Cover Sheet

First Name:	Last Name:	Mark:
Student ID:	Date:	

Phys101 Written Assignment #8

Due Monday July 18, at the end of tutorial

Textbook (Giancoli, 6th edition) page 284 problem #68.

68. A hydraulic lift is used to jack a 970-kg car 12 cm off the floor. The diameter of the output piston is 18 cm, and the input force is 250 N. (a) What is the area of the input piston? (b) What is the work done in lifting the car 12 cm? (c) If the input piston moves 13 cm in each stroke, how high does the car move up for each stroke? (d) How many strokes are required to jack the car up 12 cm? (e) Show that energy is conserved.