Phys102 Assignment Cover Sheet

First Name:_____ Last Name:_____ Mark: _____

Student ID:_____ Date: _____ Section: _____

Phys102 Written Assignment #6

Due Wed/Thur Nov 3/4, by the end of your tutorial.

Textbook (Giancoli, SFU edition), page756, question #58.

58. A long horizontal wire carries a current of 48 A. A second wire, made of 1.00-mm-diameter copper wire and parallel to the first, is kept in suspension magnetically 5.0 cm below (Fig. 28–57). (*a*) Determine the magnitude and direction of the current in the lower wire. (*b*) Is the lower wire in stable equilibrium? (*c*) Repeat parts (*a*) and (*b*) if the second wire is suspended 5.0 cm *above* the first due to the first's magnetic field.