

Phys101 Assignment Cover Sheet

First Name: _____ Last Name: _____ Mark: _____

Student ID: _____ Date: _____

Phys101 Written Assignment #7

Due Monday July 4, at the end of tutorial

Textbook (Giancoli, 6th edition) page 250 problem #27.

27. Consider a ladder with a painter climbing up it (Fig. 9–61). If the mass of the ladder is 12.0 kg, the mass of the painter is 55.0 kg, and the ladder begins to slip at its base when her feet are 70% of the way up the length of the ladder, what is the coefficient of static friction between the ladder and the floor? Assume the wall is frictionless.

