PHYS221
Pre-lab- Experiment # 6
Coefficient of Friction

1. What is the objective of this experiment? 1 pt.

2. What is the definition of the coefficient of friction? 2 pts.

3. Define the angle of repose. 1 pt.

4. Draw a force diagram for a block being pulled with *constant velocity* up an incline at angle θ . Be sure and draw to scale and include friction. 3 pts.

5. Calculate the force required to pull at constant velocity a block of mass 150g up a 15 degree incline. Coefficient of friction is 0.2 . Show all work. 3 pts.