PreLab 4 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phys 201

Show that the theoretical acceleration of the Atwood machine is:

 When M1 < M2

Use Newton’s second law: ∑F=ma (the sum of the forces equals mass times acceleration).

Atwood Machine:

M1

M2