

Physics 1101 Experiment 13 Homework

NAME _____

1. What is a simple pendulum? If you were to suspend a baseball bat from one end and let it swing back and forth, does it make a simple pendulum?

2. Under what conditions does an oscillating mass tied to a string constitute a simple pendulum?

3. For the variable- g pendulum, what is the value of g_{eff} when $\theta = 47$ degrees?

4. The period of the variable- g pendulum is $T^2 = K(1/g_{\text{eff}})$. Upon what variables do you think K might depend? (Hint: The moment of inertia is involved.)

NOTE: You should answer question 1 in Experiment 13 in the laboratory manual before you come to the laboratory.