

Physics 1101 Experiment 3 Homework

NAME _____

1. What is meant by the term “magnetic breakaway force?”
2. What two radii for the rotating mass will you use for this experiment?
3. Calculate the value of Δx for each of the two radii you will use in this experiment. Remember that the circumference of the circle is divided into 36 equal parts.
4. If your experiment contained no experimental errors, how should F_c and F_{mag} relate to one another? Explain your answer.

NOTE: You should answer questions 2 and 3 in Experiment 3 in the laboratory manual before you come to the laboratory.