Physics 1121 Exp.12 Vibrating String Homework

NAME_____

1. What is a standing wave?

2. A 4.0 g string is 150 cm long and it is fixed at both ends. It is vibrating with a frequency of 120 Hz. The wave has a speed of 7200 cm/s. Find the number of segments the wave produces.

3. What is the tension on the string in Question 2?

4. When standing waves are produced in this experiment, does reducing the tension produce a larger or smaller number of antinodes along the string? Explain.