

Name:

Student ID:

## Physics 9B Lab Report #5

### I. Calibrating the Simulator

1. Find the distance from the slit to the screen in the simulator using two different settings

• wavelength #1: \_\_\_\_\_ gap width #1: \_\_\_\_\_

• wavelength #2: \_\_\_\_\_ gap width #2: \_\_\_\_\_

2. Attach a screen shot of the result for the hair width that you obtained using the simulator.

3. Mathematically compute the width of the hair using the data given. [Please include a note that includes the wavelength of the laser if you didn't use the data provided and did this experiment at home.]

4. Use the data given to compute the groove density of the CD, measured in grooves per millimeter.