Horizontal Motion of a Rolling Ball
Analyzing the Graphs

The following exercises will be done after your graphs have been checked and returned to you by your instructor.

Exercise 1. Calculate the slope of the two lines on your graph of the bowling ball rolling in the hallway to three significant figures. Circle the two points on each line that you are using to calculate each slope. **DO NOT mark through the two points. They should still be readable.**

Exercise 2. Use the point-slope equation and write down two equations for each line on your graph of the bowling ball rolling in the hallway (one equation using each of the two points you chose to calculate the slope).

Exercise 3. Put the equations you found in Exercise 2 into slope-intercept form. Do the intercepts in the equations agree with the intercepts seen on the graph?