**Unit 2 – Worksheet 1**

**Graphing Your Buggy Data**

1. Copy the data you collected from your buggy and the data from your buggy simulation (be sure to set delta-t back to 2 seconds) into the data tables below. Then, in different colors, plot both sets of data on the graph below.

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| |  |  | | --- | --- | | **Lab Data** | | |  |  | | 0 |  | | 1 |  | | 2 |  | | 3 |  | | 4 |  | | 5 |  | | 6 |  | | 7 |  | | 8 |  | | 9 |  | | 10 |  | | |  |  | | --- | --- | | **Simulation Data** | | |  |  | | 0 |  | | 1 |  | | 2 |  | | 3 |  | | 4 |  | | 5 |  | | 6 |  | | 7 |  | | 8 |  | | 9 |  | | 10 |  | |

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1. What do you notice about the two sets of data?
2. Draw a line of best fit through your data. What is the slope of this line? What might it tell you about the motion of your buggy?
3. What is the vertical intercept of this line? What might it tell you about the motion of your buggy?