**Understanding Graphs of Motion**

**Name and section number:**

**Partner’s name and section number:**

1. To demonstrate your ability to acquire data and follow the motion templates of Parts I and II, please copy and paste an example graph from each of the four templates in the box below. Template 0 should be just above a), Template 1 just above b), etc. Format the graphs such that they are approximately square and about the same size and such that the four graphs take up the rest of this page. Question 2 goes onto the next page.

a) Template 0 b) Template 1

c) Template 2 d) Template 3

2. To demonstrate your understanding of the kinematical variables x, vx, and ax, please copy and paste an example graph for each of the prescriptions of Part III. As above, Prescription 1 should be just above a), Prescription 2 just above b), etc. Format the graphs such that they are approximately square and about the same size and such that the four graphs take up most of the rest of the page.

a) x increasing, vx reasonably constant b) x decreasing, ax positive

c) vx positive, ax positive d) vx negative, ax negative

*Each partner should do Questions 3 and 4 individually; save two copies of this file under different names. Remember to change the order of your name and your partner’s name at the beginning of the file. Save the file again after typing in your answer and before you submit it for grading through myWPI. Email it to yourself so that you have a record of your work.*

3. In a few sentences in the box below, use physics terms to describe your motion from the lab to wherever you are going next.

4. What are the names, email addresses, telephone numbers, and office locations of your conference and lab instructors?