**Walking Like a Model**

Pretend you are the director of an upcoming fashion show. It is your job to tell the model how he/she must walk on the runway. Be very specific and tell the model when to move forward, when to move backward, and when to stand still. Give your model directions below following the given example.

**Example:** Sally will start by moving forward at 3 m/s for 4 seconds. Then she will move backward at 1 m/s for 2 seconds. Then she will stand still for 1 second. Then she will move backward at 2 m/s for 3 seconds.

Now, draw a graph of your model’s motion. Use distance and time for your two axes (Remember that your model’s speed relates to the slope of your distance vs. time graph!).

Now, using the motion detectors provided, have someone from your group pretend to be your model. Have them follow the directions you provided and see how close the graph of their motion is to the graph that you made above. Draw the graph that appears on your calculator below.

How did you do? Was your graph on page one similar to the graph on the calculator? If not, why was it different?