

PH201 Postlab 2: Displacement, Velocity and Acceleration

1. For some experiments in the lab you might have seen noisy data from the detector ... at least I saw some when I was walking around (-: In what situations did you see unexpected data, and how did you deal with it?

2. A skateboarder is rolling down a hill. You discover her when she is rolling at a speed of 1.0m/s , and she is accelerating at a rate of 3.0m/s^2 . Draw a picture showing this information as well as a x vs t , v vs t , and a a vs t diagrams for a time of 5 seconds. Don't forget to use an accurate scale and to label the axes on each of your coordinate systems. Draw the graphs stacked above each other. This exercise is about the graphs, but in case you would like some extra practice use your graphs to determine how far she rolled in these first 5 seconds and what her velocity is after these 5 seconds.