Physics 151 Reading Assignment for June 3 Sections 1.1 through 1.3

Please notice that this file is two pages long.

1.1 Motion: A First Look

- Knowing what a trajectory is - very important
- We will practice motion diagrams very extensively - probably the most important concept in this section
- Particles and the particle model will be in use until chapter 7

1.2 Position and Time

- Straight-line motion = $1D$
- Position = how far and direction from an origin
- Time - Motion diagrams for equal time intervals
- Time - $t = 0$ is an arbitrary choice
- Displacement - change in position, $\Delta x = x_f - x_i$ - our first equation
- Change in time = elapsed time

1.3 Velocity

- Uniform motion - most important - *All equations in this chapter are for objects that do NOT speed up or slow down*
- Speed - how fast $\Rightarrow$ always positive
- Velocity - how fast and direction object is moving in
- Both equations given here are for the *average* speed and *average* velocity.