Physics 151 Reading Assignment for September 12 Sections 3.6 to 3.8

3.6 - Motion in Two Dimensions: Projectile Motion

- Projectile object that moves in two dimensions, motion due to gravity
- The *components* of the initial velocity go into the equations
- \bullet Projectiles have uniform motion in x and free fall in y this leads to the parabola as the trajectory
- The x and y motion are independent of each other

3.7 -Projectile Motion: Solving Problems

- Same idea as one-dimensional motion, but you have to keep track of twice as many variables
- The range of a projectile how far away it lands.
- For launching at ground level, 45° gives the maximum range

3.8 -Motion in Two Dimensions: Circular Motion

• Just read this over for now. We'll return in more detail in chapter 6